

TM 9-1440-250-24P-6-2

TECHNICAL MANUAL

**ORGANIZATIONAL, DIRECT SUPPORT AND
GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
(INCLUDING DÉPOT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS)**

CHARLES E. STUBBS

**ILLUSTRATION SUPPLEMENT
RAIL, LAUNCHING-HANDLING
GUIDED MISSILE, M3A1
1450-00-474-0717**

**IMPROVED NIKE-HERCULES AIR DEFENSE
GUIDED MISSILE SYSTEM**

CHARLES E. STUBBS

DEPARTMENT OF THE ARMY

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TECHNICAL MANUAL

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HEADQUARTERS,
DEPARTMENT OF THE ARMY
Washington, D. C., 29 January 1984

Organizational, Direct Support, and General Support Maintenance

Repair Parts and Special Tools List

(Including Depot Maintenance Repair Parts and Special Tools)

ILLUSTRATION SUPPLEMENT

FOR

RAIL, LAUNCHING-HANDLING

GUIDED MISSILE, M3A1

1450-00-474-0717

(IMPROVED NIKE-HERCULES AIR DEFENSE GUIDED MISSILE SYSTEM)

Current as of 2 November 1983

REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in back of this manual direct to: Commander, U. S. Army Missile Command, ATTN: DRSMI-SNPS, Redstone Arsenal, AL 35898. A reply will be furnished to you.

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*This manual supersedes TM 9-1440-250-24P-6-2, dated 4 August 1980.

Section I. INTRODUCTION

1. Scope.

This manual depicts illustrations that will aid in the identification of authorized spares and repair parts; special tools, special test, measurement and diagnostic equipment (TMDE), and other support equipment, required for performance of organizational, direct support and general support maintenance of the Rail, M3A1.

2. General.

This Repair Parts and Special Tools List Illustration Supplement is divided into the following sections:

a. Section II. Illustrations, Assembly Parts Breakdown. This section is divided as follows:

(1) Assembly Parts Breakdown List. This list is furnished to aid in locating components, assemblies, and subassemblies and indicates by indenture the generation breakdown level of the item.

(2) Cross-Reference Numerical List. This list is furnished as an aid in locating items by part number that appear on the assembly parts breakdown list.

b. Section III. Illustrations. A series of exploded views of assemblies and subassemblies arranged in figure number sequence. All exploded parts are identified with callout numbers placed in clockwise sequence. The first illustration will depict the end item followed by an exploded view illustration or series of illustrations of the major assembly prior to the breakdown of its subassemblies. The subassemblies are then illustrated in the order that they appeared and were indexed on the major assembly.

c. Section IV. Numerical Index. A list, in alphanumeric sequence, of all part numbers appearing in the illustration legends. Part numbers are cross-referenced to each illustration figure and item number appearance. This index is furnished as an aid in locating items in this supplement, and authorized items in the Repair Parts and Special Tools List.

3. Special Information.

a. Repair Parts and Special Tools List. The listing of authorized repair parts for the equipment contained in this illustration supplement are located in TM 9-1440-250-24P-6-1, Repair Parts and Special Tools List. Items that appear on the illustrations, but which are not listed in the Repair Parts and Special Tools List, are not authorized repair parts. In such cases, or where differences exist between information found in this Supplement and the Repair Parts and Special Tools List, the information found in the Repair Parts and Special Tools List manual will prevail for requisitioning purposes.

b. Quantity Per Illustrated Application. The quantity per illustrated application will be shown in the legend to the right of the referenced number. The asterisk (*) shown on the illustration legend denotes "as required."

c. Wiring Harnesses. Wiring harnesses that require a separate illustration(s) for component identification, or cable assemblies and test leads composed of common type components, have been assigned a control number and the component parts are identified at the end of Section III. The assembled items are identified at their first appearance and refer to an illustration for details. The referenced illustration depicts all components of the wiring harnesses, cable assemblies, or test leads. Following the referenced illustration is an application page(s) listing the components and quantities per each wiring harness, cable assembly, or test lead.

4. How to Locate Repair Parts.

a. When National stock number or part number is unknown:

(1) First. Using the table of contents, find the Illustrations, Assembly Parts Breakdown.

(2) Second. Using the Illustrations, Assembly Parts Breakdown, determine the assembly within which the repair part belongs.

(3) Third. Find the illustration covering the assembly to which the repair part belongs.

(4) Fourth. Identify the repair part on the illustration and note the part number of the repair part.

(5) Fifth. Refer to paragraph 3.a. above to determine the applicable TM where authorized repair parts are depicted. This is necessary since compatible repair parts and special tools for this supplement are shown in a separate Repair Parts and Special Tools List manual.

(6) Sixth. Using the Index of National Stock Numbers and Part Numbers of the Repair Parts and Special Tools List, find the pertinent part number of item noted on the illustration. This index is in National item identification number (NIIN) sequence followed by a list of part numbers in alphanumeric sequence, cross-referenced to the index numbers shown in the illustration figure and item number column.

(7) Seventh. After finding the index number in the figure and item number column of the Repair Parts and Special Tools List, locate the index number in the repair parts list.

b. When National stock number or part number is known:

(1) First. Refer to paragraph 3.a. above to determine the applicable TM where authorized repair parts are depicted. This is necessary since compatible repair parts and special tools for this supplement are shown in a separate Repair Parts and Special Tools List manual.

(2) Second. Using the Index of National Stock Numbers and Part Numbers of the Repair Parts and Special Tools List, find the pertinent National Stock Number or part number. This index is in NIIN sequence followed by a list of part numbers in alphameric sequence, cross-referenced to the index numbers shown in the illustration figure and item number column.

(3) Third. After finding the index number in the figure and item number column of the NSN or Part Number Index of the Repair Parts & Special Tools List, locate the index number in the repair parts list.

SECTION II.

ILLUSTRATIONS, ASSEMBLY PARTS BREAKDOWN

1. Assembly Parts Breakdown List

Note: The use of dots indicates generation breakdown.

| Illustration Title | Figure No. |
|---|------------|
| RAIL, LAUNCHING-HANDLING, GUIDED MISSILE, M3A1 /9027441/ | 1 |
| ..RELEASE ASSEMBLY, LAUNCHING RAIL /9032212/----- | 10 |
| ..BREAKAWAY ASSEMBLY, LAUNCHING RAIL /8525300/----- | 11 |
| ..ELECTRICAL INSTALLATION, LAUNCHING RAIL /8167172/----- | 12 |
| ...CABLE ASSEMBLY SWITCH /8167414/----- | 16 |
| ...CABLE ASSEMBLY SWITCH /8167414/----- | 17 |
| ...CABLE ASSEMBLY /13060170/----- | 18 |
| ...CABLE ASSEMBLY /8167527/----- | 19 |
|SWITCH SUBASSEMBLY /8527134/----- | 20 |
|HOUSING, SENSITIVE SWITCH /15605-49-3161/----- | 21 |
| ..BELL ASSEMBLY, ELECTRICAL INSTALLATION /8527036 AND 8527037/----- | 22 |
| ..CABLE ASSEMBLY, POWER, ELECTRICAL /11067500 AND 11067544/----- | 23 |
| ...CONNECTOR, PLUG, ELECTRICAL /8526871/ | 24 |
| ...CONNECTOR, PLUG, ELECTRICAL ASSEMBLY /11067515/----- | 25 |
| ..RELAY ASSEMBLY, BLOWER /8521464/----- | 26 |
| ..TERMINAL BOARD /8525120 AND 8525121/ | 27 |

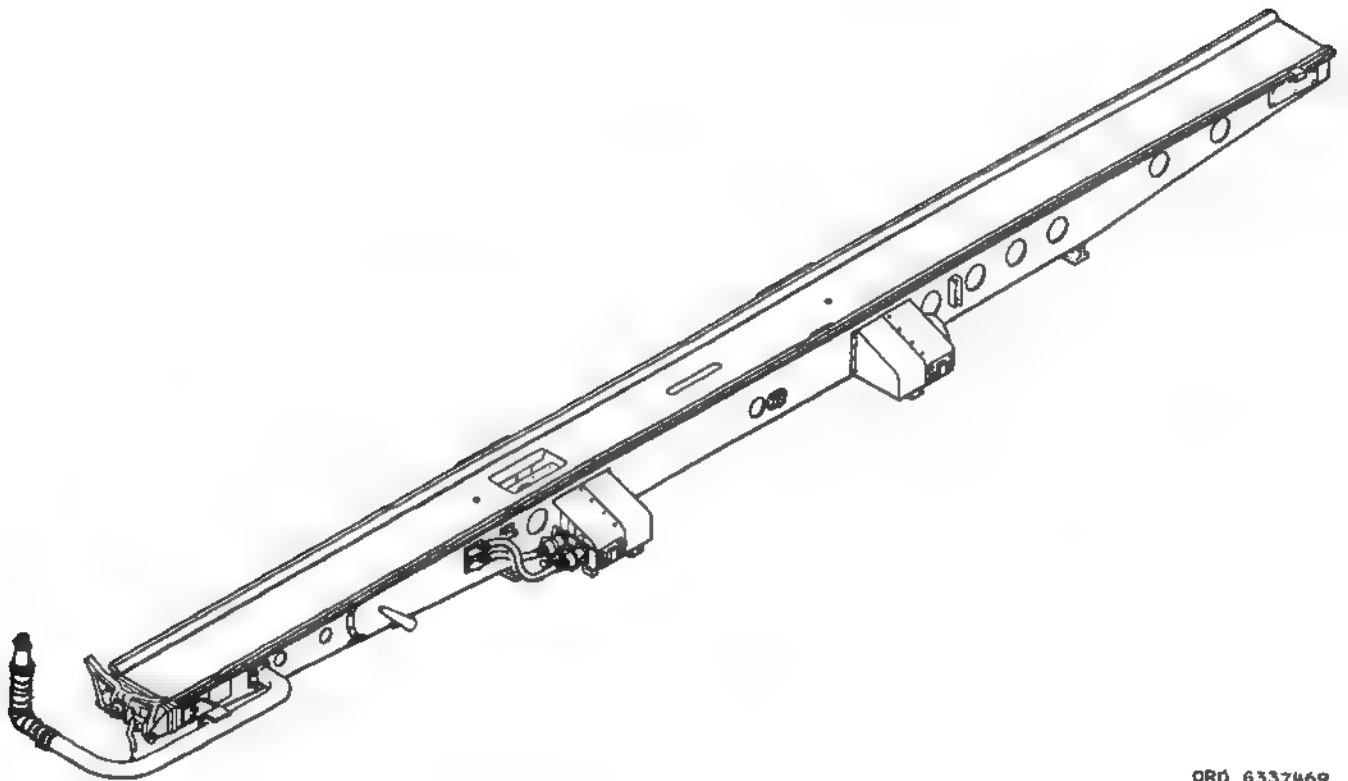
| Illustration Title | Figure No. |
|---|------------|
| ..WHEEL ASSEMBLY /8167416/----- | 28 |
| ..WHEEL ASSEMBLY /8167435/----- | 29 |
| ..CYLINDER ASSEMBLY, ACTUATING, LINEAR /8521441 AND 8521453/- | 30 |
| ..BRAKE, LAUNCHING RAIL /8525285/----- | 32 |

2. Cross-Reference Numerical List

| Reference No. | Assembly | Figure No. |
|---------------|--|------------|
| 11067500 | CABLE ASSEMBLY, POWER, ELECTRICAL CONNECTOR, PLUG, ELECTRICAL ASSEMBLY | 23 |
| 11067515 | CABLE ASSEMBLY, POWER, ELECTRICAL ASSEMBLY | 25 |
| 11067544 | CABLE ASSEMBLY, POWER, ELECTRICAL ASSEMBLY | 23 |
| 13060170 | CABLE ASSEMBLY | 18 |
| 49-3161 | HOUSING, SENSITIVE SWITCH | 21 |
| 8167172 | ELECTRICAL INSTALLATION, LAUNCHING RAIL | 12 |
| 8167414 | CABLE ASSEMBLY SWITCH | 16 |
| 8167416 | WHEEL ASSEMBLY | 28 |
| 8167435 | WHEEL ASSEMBLY | 29 |
| 8167527 | CABLE ASSEMBLY | 19 |

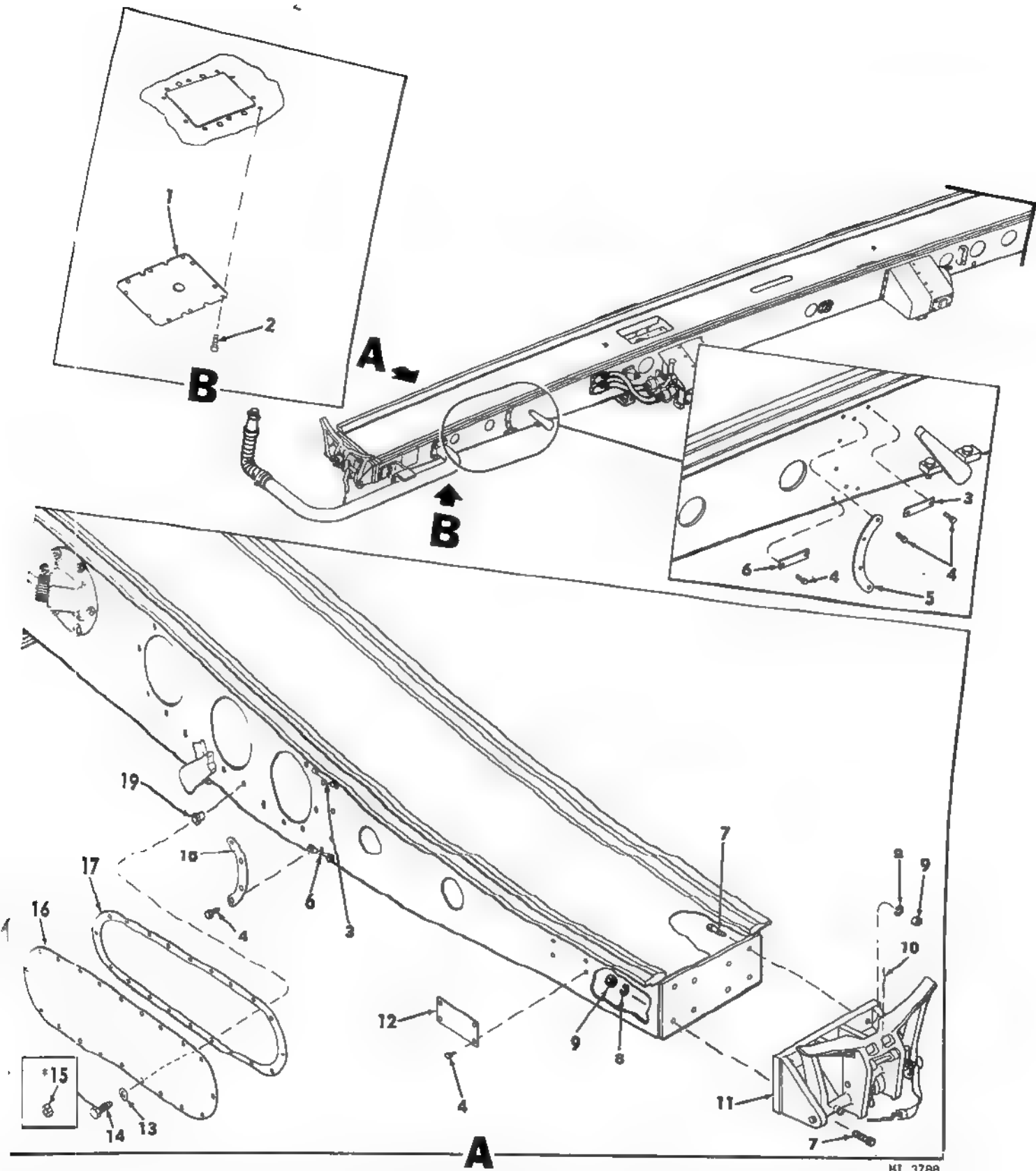
| <i>Reference No.</i> | <i>Assembly</i> | <i>Figure No.</i> | <i>Reference No.</i> | <i>Assembly</i> | <i>Figure No.</i> |
|----------------------|---|-------------------|----------------------|--|-------------------|
| 8521441 | CYLINDER ASSEMBLY, ACTUATING, LINEAR | 30 | 8527036 | BELL ASSEMBLY, ELECTRICAL INSTALLATION | 22 |
| 8521453 | CYLINDER ASSEMBLY, ACTUATING, LINEAR | 30 | 8527037 | BELL ASSEMBLY, ELECTRICAL INSTALLATION | 22 |
| 8521464 | RELAY ASSEMBLY, BLOWER | 26 | 8527134 | SWITCH SUBASSEMBLY | 20 |
| 8525120 | TERMINAL BOARD | 27 | 9027441 | RAIL, LAUNCHING- HANDLING, GUIDED MISSILE, | 1 |
| 8525121 | TERMINAL BOARD | 27 | | M3A1 RELEASE ASSEMBLY, LAUNCHING RAIL | 10 |
| 8525285 | BRAKE, LAUNCHING RAIL | 32 | | | |
| 8525300 | BREAKAWAY ASSEMBLY, LAUNCHING RAIL | 11 | | | |
| 8526871 | CONNECTOR, PLUG, ELECTRICAL | 24 | | | |

SECTION III. ILLUSTRATIONS



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FIGURE 1. RAIL, LAUNCHING-HANDLING, GUIDED MISSILE, M341 /9027441/



HI 3788

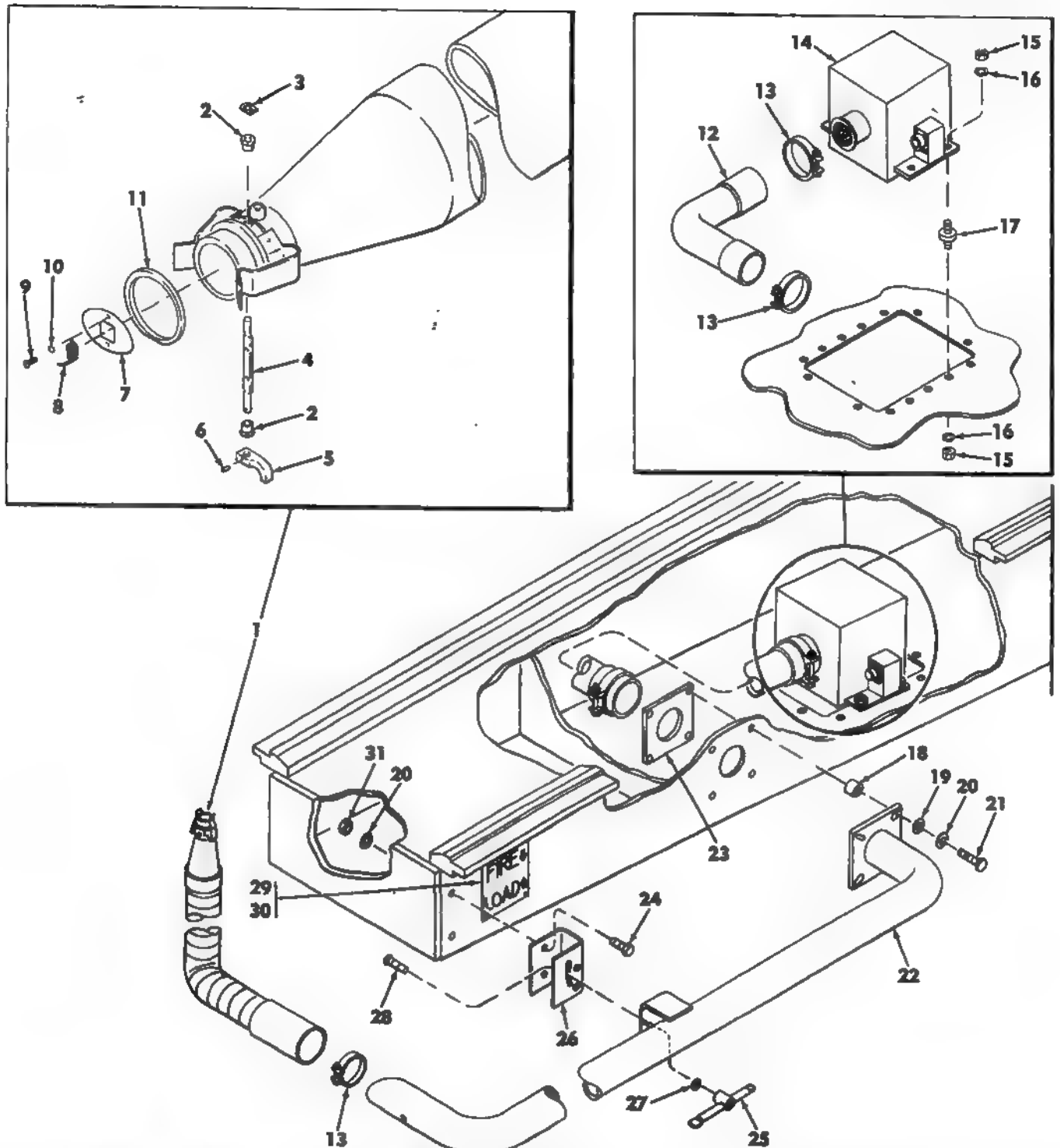
1 COVER 9034320.....1
2 SCREW MS90726-8.....10
3 PLATE 8167506.....2
4 SCREW MS24629-20.....20
5 PLATE 8167018.....1
6 PLATE 8167019.....2
7 BOLT MS20074-10-23.....8
8 WASHER MS35338-50.....8

9 NUT MS51967-20.....8
10 WIRE QQW390CONDITIONA.....*
11 RELEASE ASSEMBLY 9032212.....1
SEE FIGURE 10 FOR DETAILS
12 PLATE 9153488.....1
13 WASHER MS27183-10.....20
14 SCREW MS90726-8.....20
15 NUT MS51922-1.....20

16 COVER 8167812.....1
17 GASKET 9017737.....1
18 PLATE 8167617.....1
19 NUT 11067517.....36

* USED WITH HANDLING RAIL
HAVING STUDS

FIGURE 2. RAIL, LAUNCHING-HANDLING, GUIDED MISSILE, M3A1 /9027441/



| | | | | | |
|----|-----------------------------|----|--------------------------|----|-------------------------|
| 1 | HOSE ASSEMBLY 9979094.....1 | 12 | HOSE 9025044.....1 | 23 | PLATE 9977598.....1 |
| 2 | BUSHING 9978401.....2 | 13 | CLAMP MS21920-26R.....3 | 24 | BOLT MS90726-59.....2 |
| 3 | RING 8428228.....1 | 14 | BLOWER 9031878.....1 | 25 | WING NUT 9977597.....1 |
| 4 | PIN 9978399.....1 | 15 | NUT MS51967-2.....8 | 26 | BRACKET 9977596.....1 |
| 5 | AKM 9978397.....1 | 16 | WASHER MS35338-44.....8 | 27 | WASHER MS27183-18.....1 |
| 6 | PIN NAS561-2-3.....1 | 17 | MOUNT 9025043.....4 | 28 | BOLT MS35751-123.....1 |
| 7 | VALVE 9978398.....1 | 18 | SPACER NAS43HT6-13.....4 | 29 | PLATE 9977602.....1 |
| 8 | SPRING 9978400.....1 | 19 | WASHER MS63040-6.....4 | 30 | SCREW MS24629-20.....4 |
| 9 | SCREW AN520-0-2.....2 | 20 | WASHER MS35338-46.....6 | 31 | NUT MS51968-8.....2 |
| 10 | WASHER 8428229.....2 | 21 | BOLT MS90726-60.....4 | | |
| 11 | GASKET 9029795.....1 | 22 | PIPE 9977579.....1 | | |

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FIGURE 3. RAIL, LAUNCHING-HANDLING, GUIDED MISSILE, M3A1 /9027441/

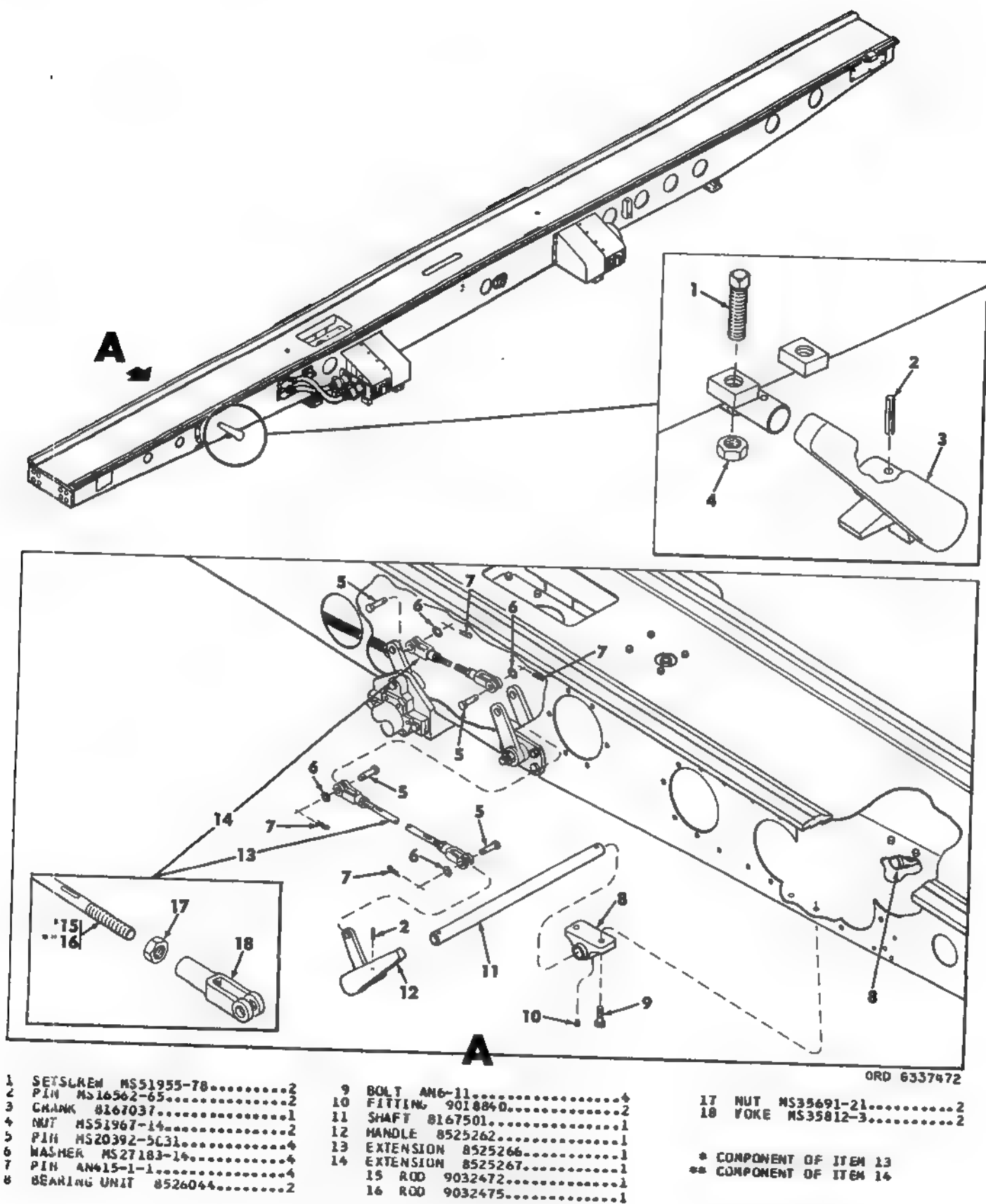
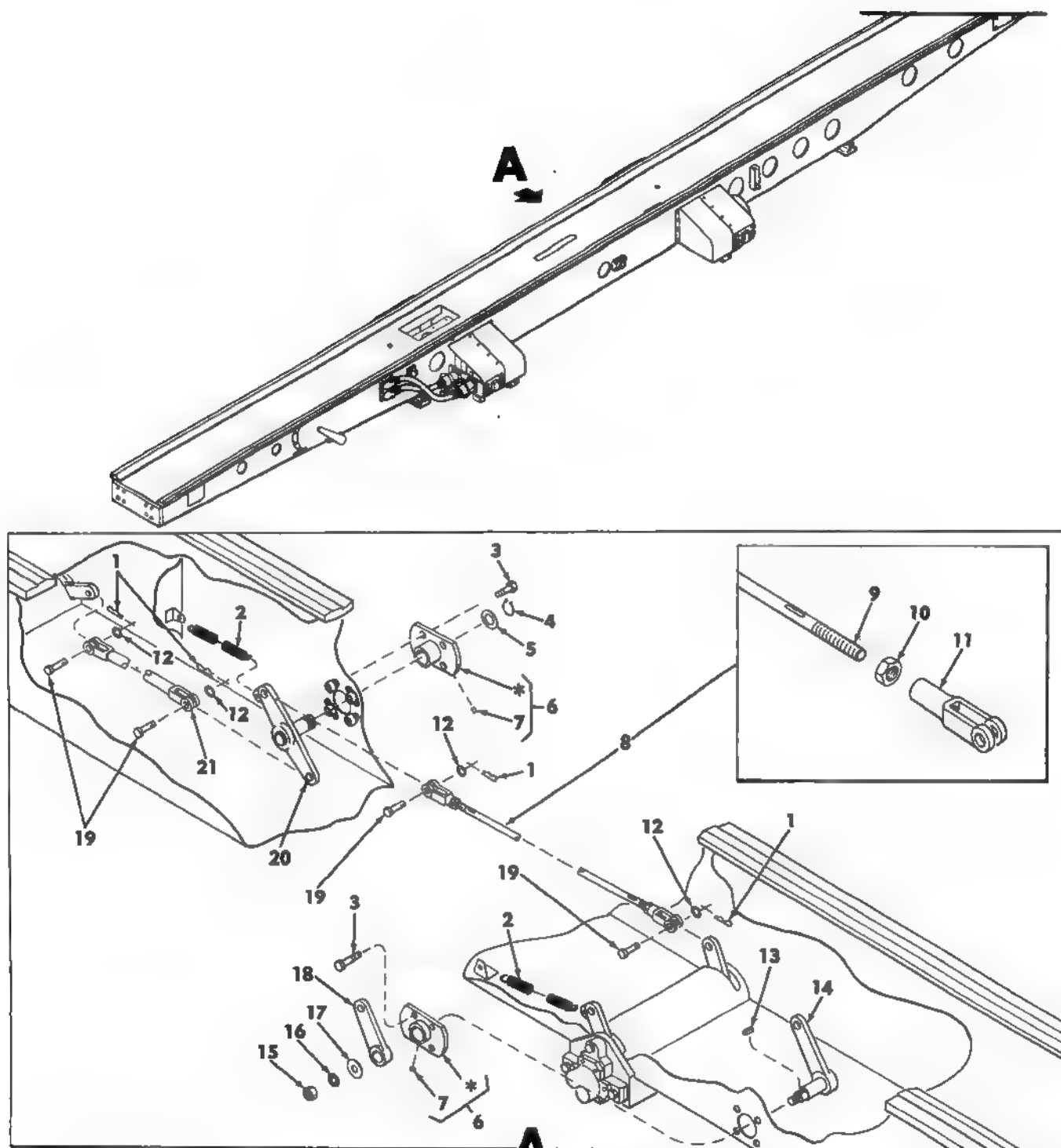


FIGURE 4. RAIL, LAUNCHING-HANDLING, GUIDED MISSILE, M3A1 /9027441/



ORD G337473

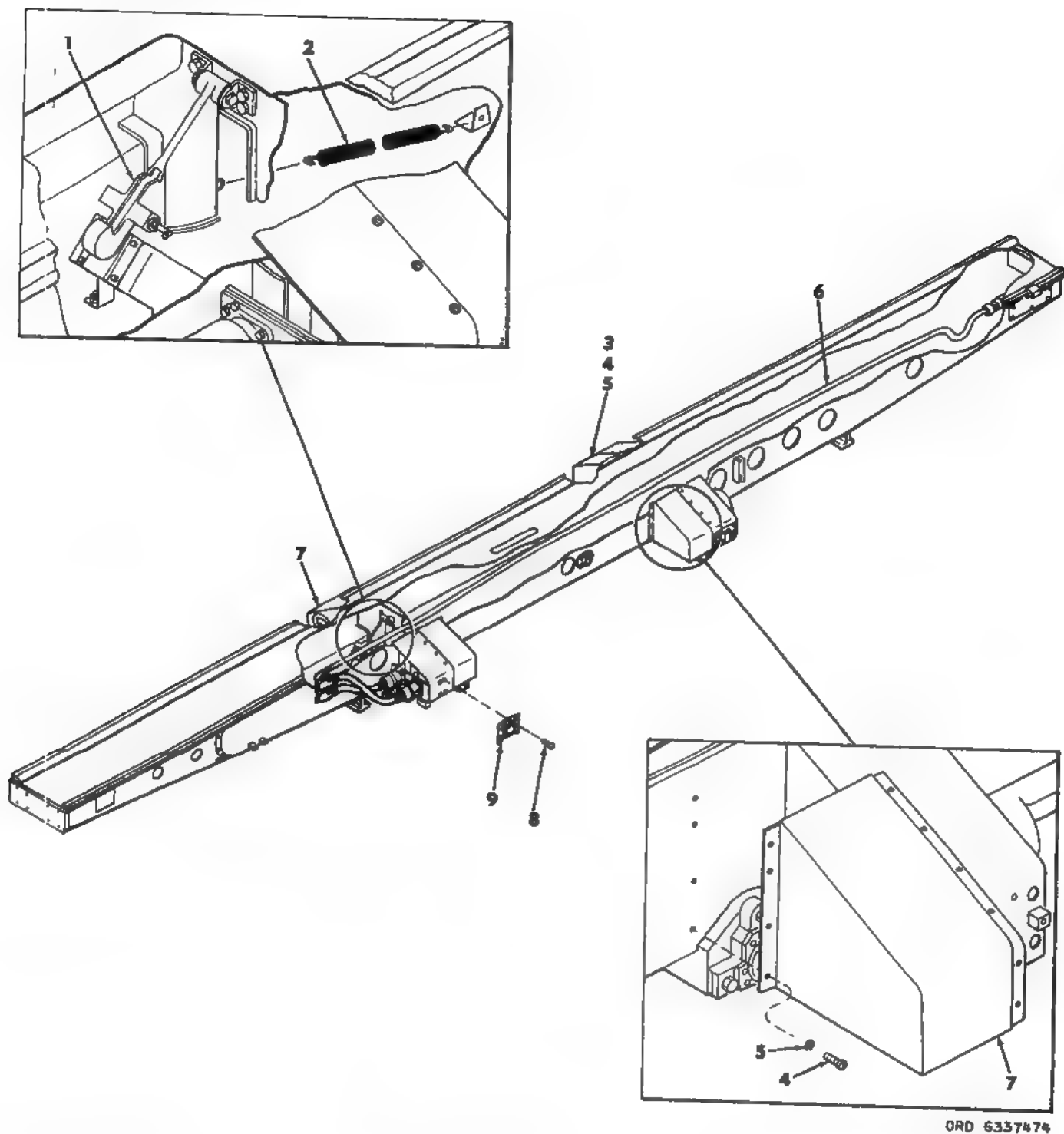
1 PIN AN415-1-1.....4
2 SPRING 8525274.....2
3 SLEEVE MS90728 61.....8
4 RING MS10024-1087.....1
5 WASHER MS27183-25.....1
6 BEARING 0167497.....2
7 FITTING 9018040.....1
8 EXTENSION SHAFT ASSEMBLY
8525268.....1

9 ROD 8522121.....1
10 NUT MS35691-21.....2
11 CLEVIS MS35812-4.....2
12 WASHER MS27183-14.....4
13 KEY MS20067-118.....1
14 LEVER ARM ASSEMBLY
9032471.....1
15 NUT MS35691-17.....1
16 WASHER MS35333-42.....1

17 WASHER MS63040-6.....1
18 ARM 8525276.....1
19 PIN MS20392-5C31.....4
20 LEVER ASSEMBLY 8525265.....1
21 CONNECTOR 8525269.....1

* COMPONENT OF ITEM 6

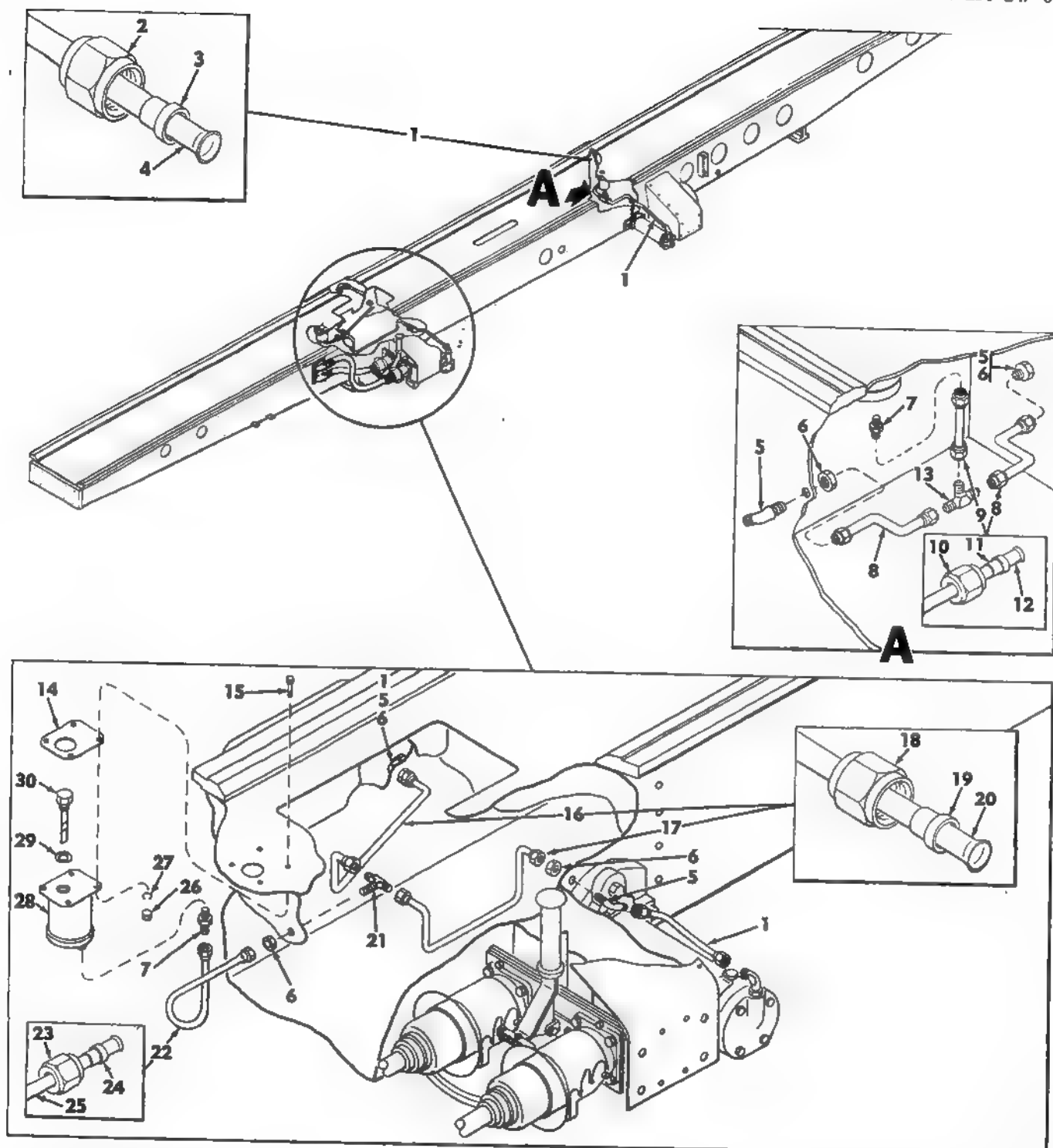
FIGURE 5. RAIL, LAUNCHING-HANDLING, GUIDED MISSILE, M3A1 /9027441/



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| | | |
|--|---|---|
| 1 BREAKAWAY ASSEMBLY 8525300.....1 SEE FIGURE 11 FOR DETAILS | 4 SCREW MS35204-240.....40 5 WASHER MS35333-39.....28 6 ELECTRICAL INSTALLATION 8167172.....1 SEE FIGURE 12 FOR DETAILS | 7 GUARD 8525289.....2 8 SCREW MS35190-270.....16 9 BUMPER 8167495.....4 |
| 2 SPRING 8525274.....1 3 GUARD 8525288.....2 | | |

FIGURE 6. RAIL, LAUNCHING-HANDLING, GUIDED MISSILE, H3A1 /9027441/



- ```

1 TUBE ASSEMBLY 8525234.....4
2 NUT AN818-4C.....2
3 SLEEVE MS20819-4J.....2
4 TUBING MILT6845.....0
5 ELBOW AN833-C4.....4
6 NUT AN924-4J.....5
7 ADAPTER AN816-4C.....2
8 TUBE ASSEMBLY 8525233.....2
9 TUBE ASSEMBLY 8525235.....1
10 NUT AN818-4.....2

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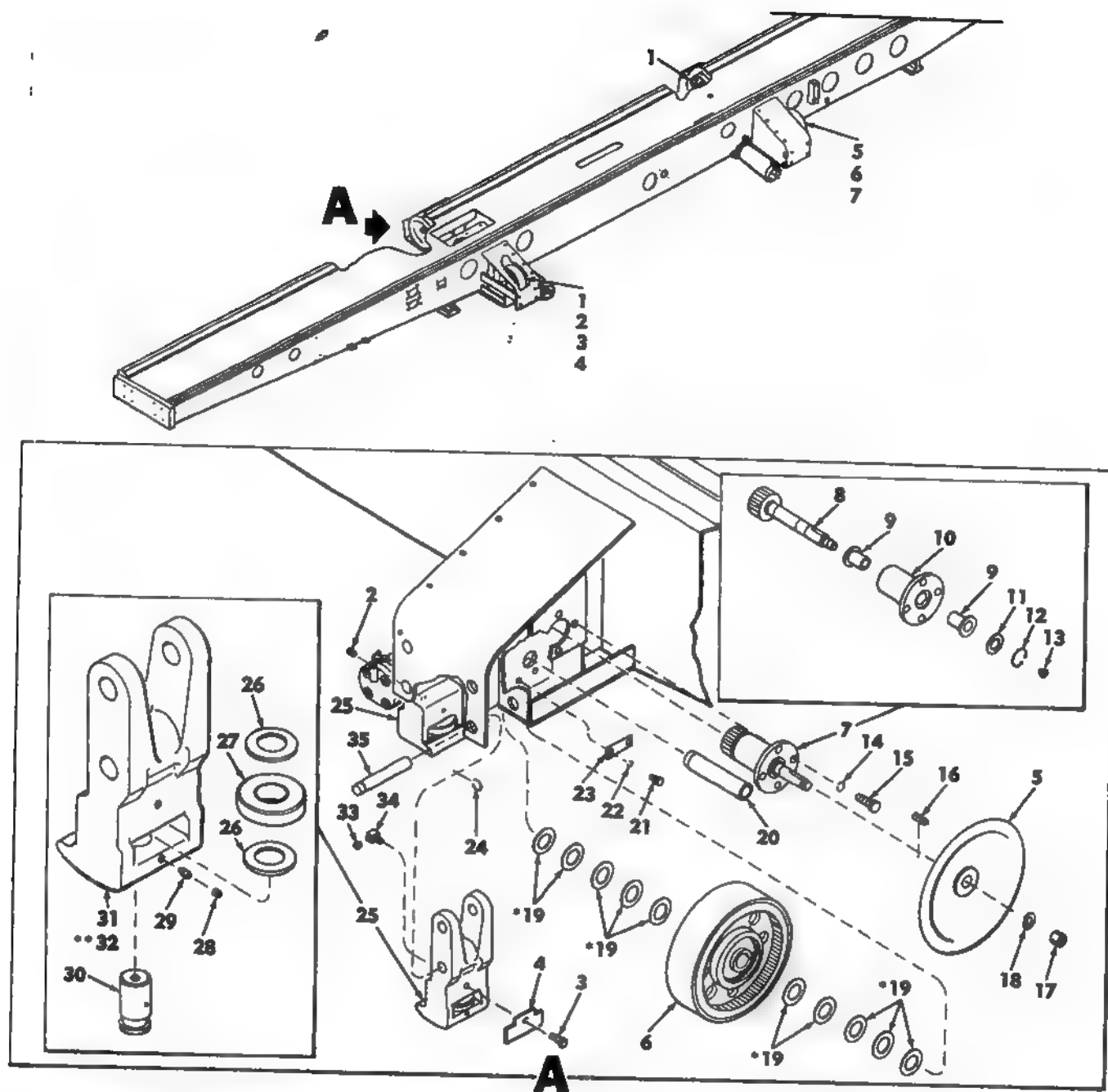
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11 SLEEVE MS20819-4.....2
12 TUBING MILT6845.....*
13 TEE AN824-4C.....1
14 GASKET 8525279.....2
15 SCREW MS90725-7.....0
16 TUBE ASSEMBLY 9029931.....1
17 TUBE ASSEMBLY 9029934.....1
18 NUT AN818-4C.....2
19 SLEEVE MS20819-4J.....2
20 TUBING MILT6845.....2

```

- | | | | |
|----|---------------|------------|--------|
| 21 | TEE | MS243954 |1 |
| 22 | TUBE ASSEMBLY | 8525277 |1 |
| 23 | NUT | AN818-4 |2 |
| 24 | SLEEVE | MS20819-4 |2 |
| 25 | TUBING | MILT6845 |* |
| 26 | NUT | MS51967-2 |8 |
| 27 | WASHER | MS35338-44 |8 |
| 28 | RESERVOIR | 8525238 |2 |
| 29 | GASKET | MS35769-9 |2 |
| 30 | GAGE ROD | 8525236 |2 |

FIGURE 7. RAIL, LAUNCHING-HANDLING, GUIDED MISSILE, M3A1 /9027441/



MI 37882

| | | |
|----------------------------------|--|------------------------------|
| 1 WHEEL ASSEMBLY 8167416.....2 | 14 WASHER MS35338-46.....8 | 28 SETSCREW MS51964-63.....1 |
| 2 SEE FIGURE 28 FOR DETAILS | 15 SCREW MS18154-60.....8 | 29 SETSCREW MS51976-46.....1 |
| 3 SETSCREW MS51026-62.....6 | 16 KEY MS20068-122.....2 | 30 PIN 8525257.....1 |
| 4 SCREW MS24668-11.....2 | 17 NUT MS51968-14.....2 | 31 HOOK 8525258.....1 |
| 5 SHIM 9977153.....2 | 18 WASHER MS35338-48.....2 | 32 HOOK 11067546.....1 |
| 6 HANDWHEEL 8167452.....2 | 19 WASHER AN960C1616L.....40 | 33 FITTING 9018840.....8 |
| 7 WHEEL ASSEMBLY 8167435.....2 | 20 PIN 8167418.....4 | 34 CONNECTOR 9151469.....8 |
| SEE FIGURE 29 FOR DETAILS | 21 SCREW MS90725-3.....8 | 35 PIN 8525255.....16 |
| 8 HOUSING ASSEMBLY 8167621.....2 | 22 WASHER MS35338-44.....8 | |
| 9 GEARSHAFT 8167422.....1 | 23 HOLDER 8167445.....4 | |
| 10 BEARING 8528934.....2 | 24 RING MS16626-105M.....16 | |
| 11 SLEEVE 9029768.....1 | 25 STABILIZING HOOK ASSEMBLY 8525259.....8 | |
| 12 WASHER AN960-1216L.....1 | 26 WASHER 8167026.....2 | |
| 13 RING MS16626-1068.....1 | 27 ROLLER 8167019.....1 | |
| 14 FITTING 9151329.....1 | | |

* QUANTITY USED DETERMINED
UPON ASSEMBLY
** ALTERNATE FOR ITEM 31

FIGURE 8. RAIL, LAUNCHING-HANDLING, GUIDED MISSILE, M3A1 /9027441/

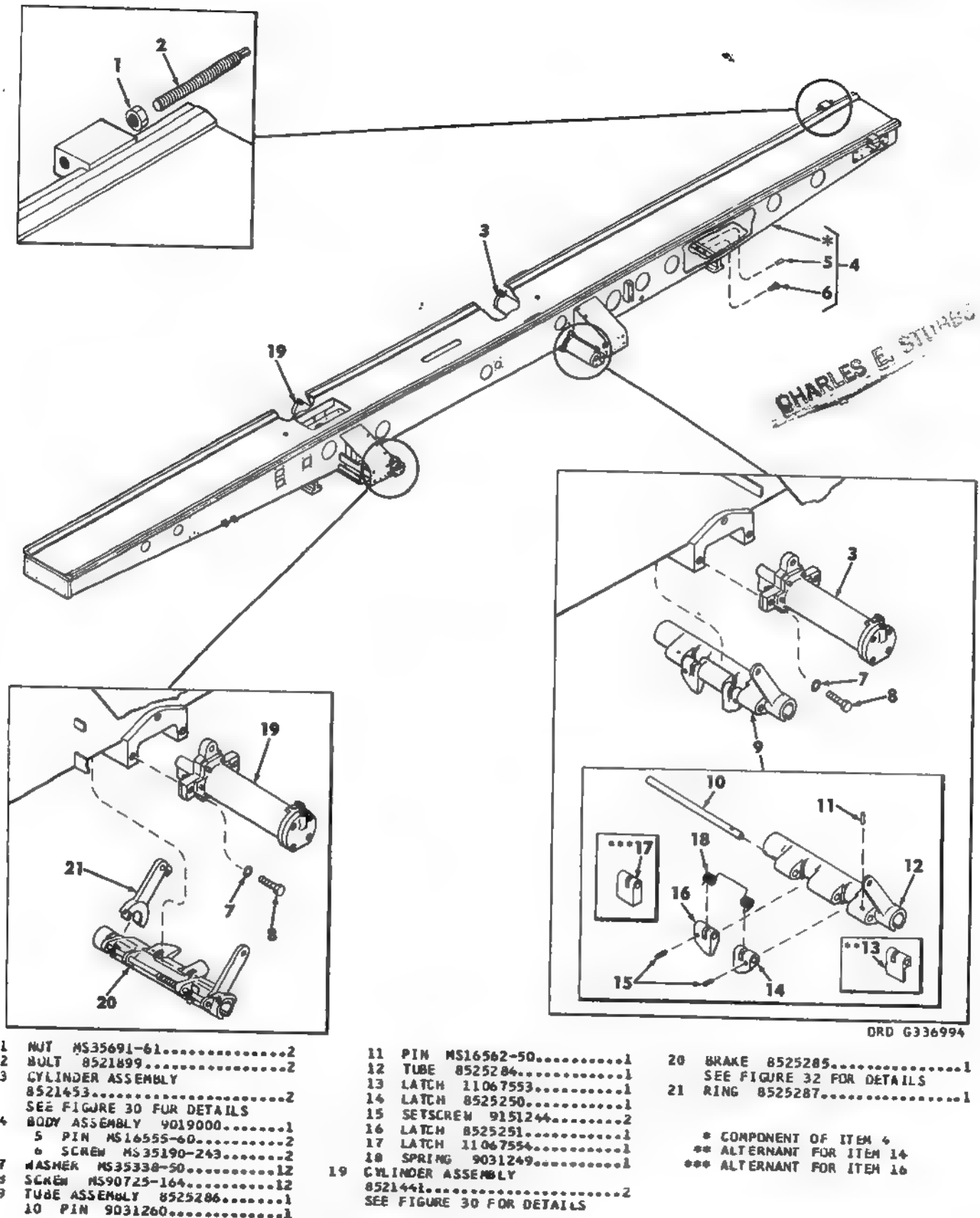
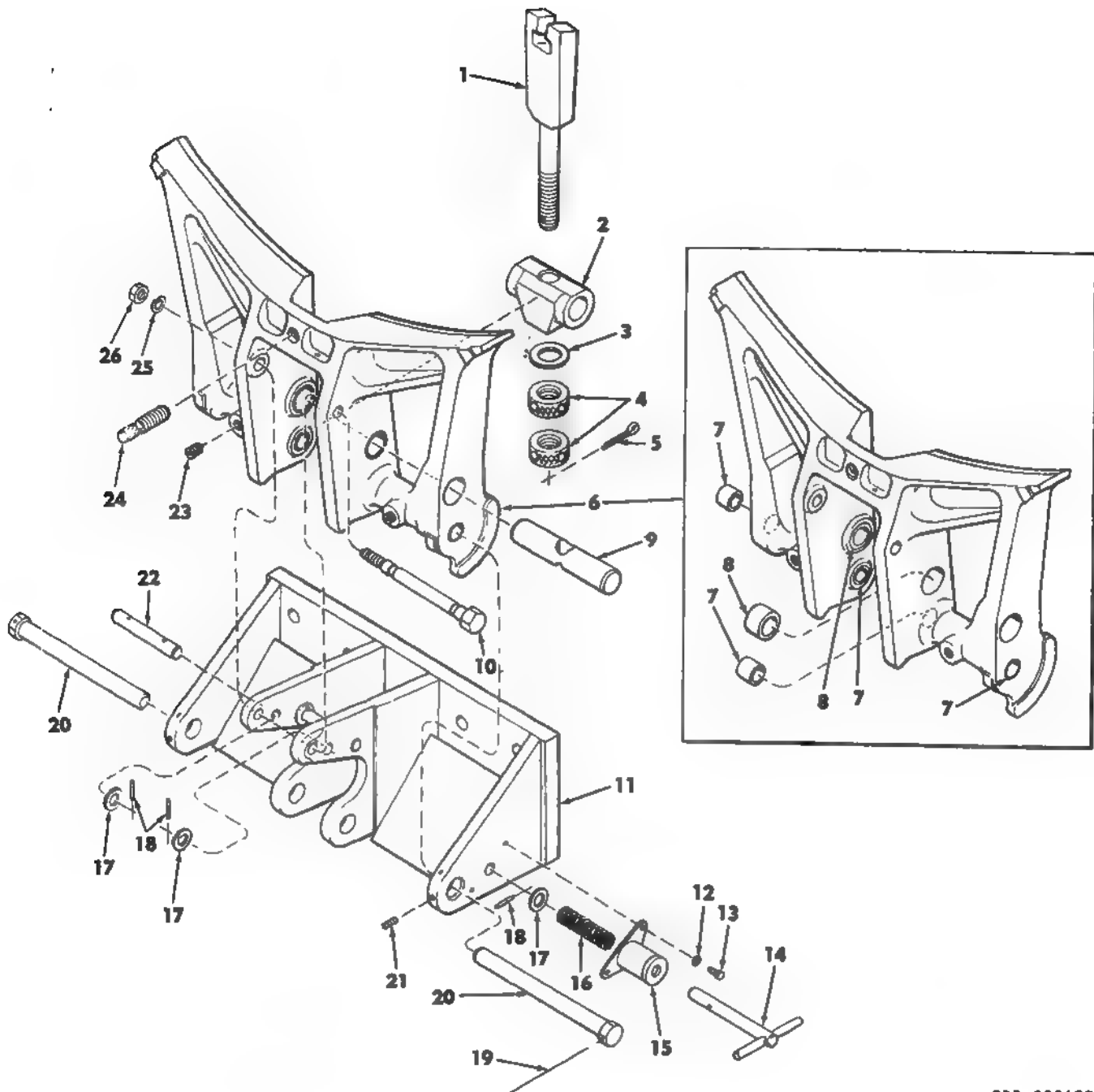


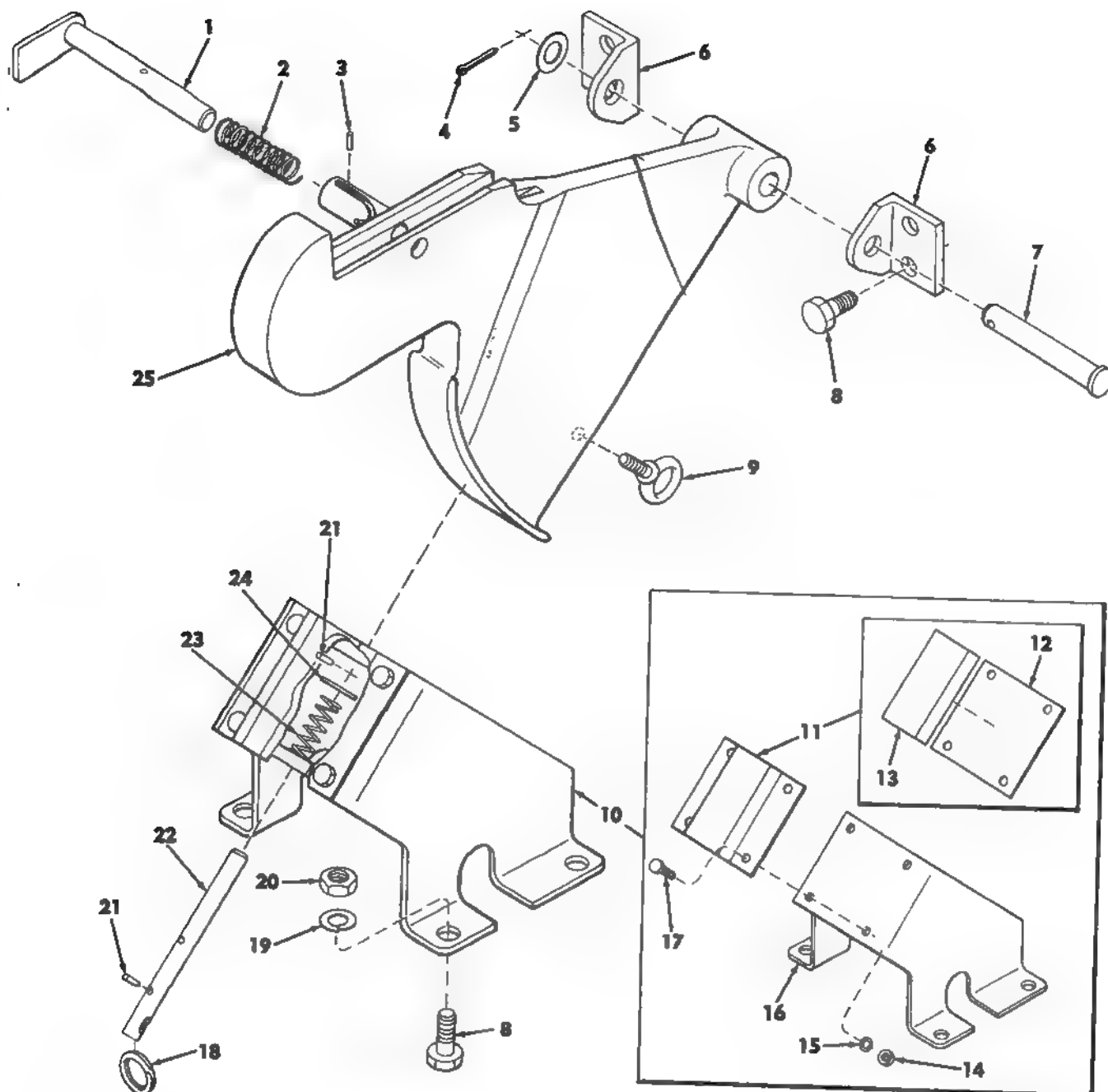
FIGURE 9. RAIL, LAUNCHING-HANDLING, GUIDED MISSILE M3A1 /9027441/



ORD G336995

| | | | | | |
|---|-----------------------------|----|--------------------------------|----|-----------------------------|
| 1 | HOLDER 9020383.....1 | 10 | BOLT 8521882.....1 | 19 | WIRE QGW390CONDITIONA.....* |
| 2 | Coupling 9020401.....1 | 11 | BRACKET ASSEMBLY 9032134.....1 | 20 | PIN 8428269.....2 |
| 3 | WASHER MS27183-43.....1 | 12 | WASHER MS35338-44.....2 | 21 | SETSCREW MS51963-68.....2 |
| 4 | NUT 9020398.....2 | 13 | SCREW MS90725-3.....2 | 22 | PIN 9020381.....2 |
| 5 | PIN MS24665-15.....1 | 14 | PIN 8524377.....1 | 23 | FITTING 9018840.....2 |
| 6 | YDKE ASSEMBLY 9032143.....1 | 15 | HOUSING 8524384.....1 | 24 | THUMBSCREW 9151815.....1 |
| 7 | BUSHING 8524385.....4 | 16 | SPRING 8165440.....1 | 25 | WASHER MS35338-141.....1 |
| 8 | BUSHING 9151843.....2 | 17 | WASHER MS20002-8.....5 | 26 | NUT MS35691-23.....1 |
| 9 | PIN 9020397.....1 | 18 | PIN NS16562-36.....5 | | |

FIGURE 10. RELEASE ASSEMBLY, LAUNCHING RAIL #9032212/
/SEE FIGURE 2 FOR NEXT HIGHER ASSEMBLY/



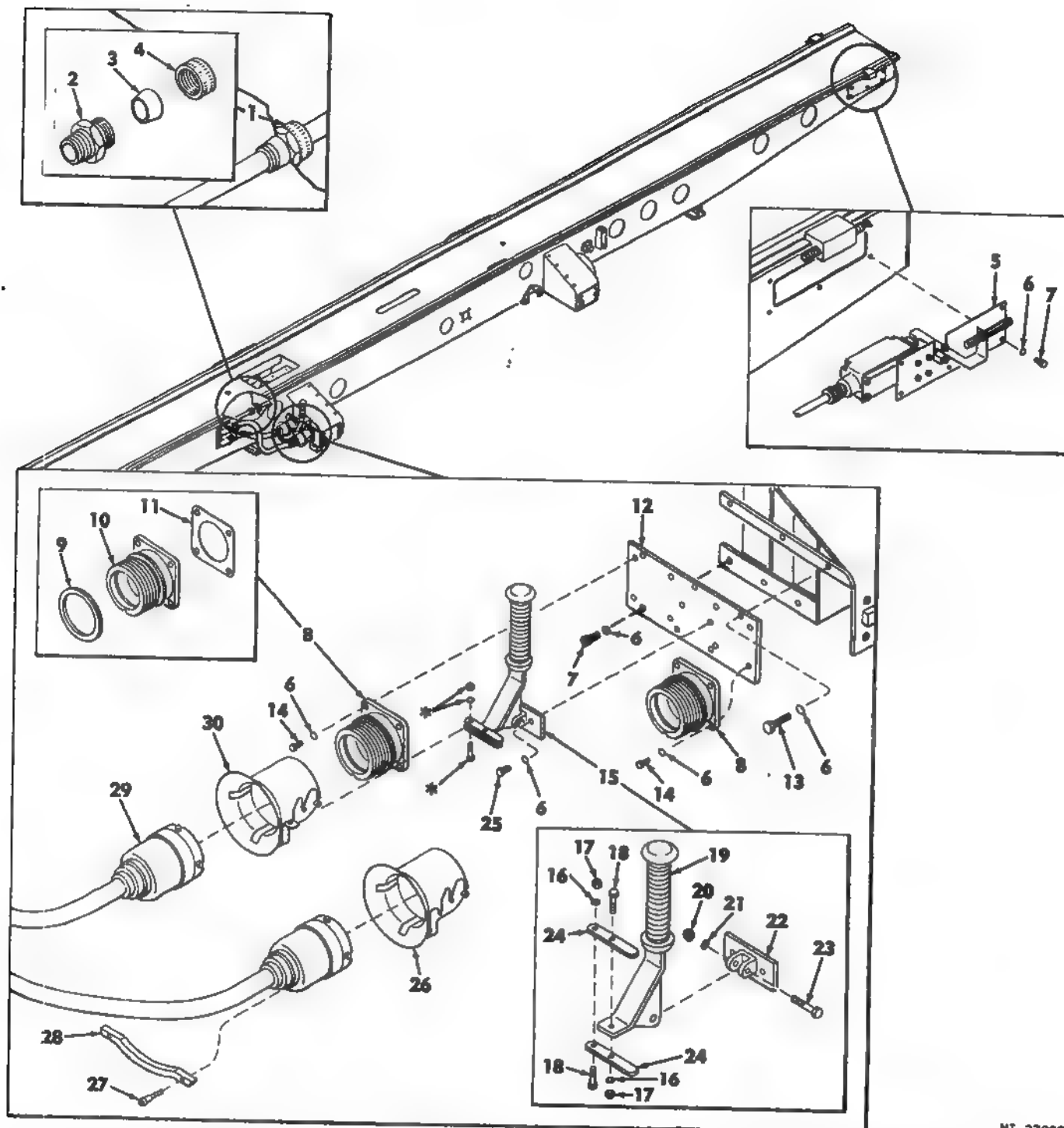
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1 PIN ASSEMBLY 9019300.....1
2 SPRING 9019275.....1
3 PIN MS16562-34.....1
4 PIN MS24665-302.....1
5 WASHER MS27183-18.....1
6 BRACKET 8525317.....2
7 PIN MS20392-7C95.....1
8 BOLT MS90726-60.....0
9 BOLT 8526915.....1

10 STOP BRACKET ASSEMBLY
8525318.....1
11 BUMPER 8524940.....1
12 PLATE 8524940-1.....1
13 PAD 8524940-2.....1
14 NUT MS35650-302.....4
15 WASHER MS35338-43.....4
16 BRACKET 8524942.....1
17 BOLT AN3-3A.....4

18 HOLDER 11067518.....1
19 WASHER MS35338-46.....4
20 NUT MS51968-8.....4
21 PIN MS16562-33.....2
22 PIN 8525321.....1
23 SPRING 8523497.....1
24 WASHER AN960C616L.....1
25 PIVOT ASSEMBLY 11067504.....1

FIGURE 11. BREAKAWAY ASSEMBLY, LAUNCHING RAIL /8525300/
/SEE FIGURE 6 FOR NEXT HIGHER ASSEMBLY/



NI 37883

| | | |
|--------------------------------|---------------------------------|----------------------------------|
| 1 BOX CONNECTOR 9111745.....1 | 11 GASKET 5183447.....1 | 24 PLATE 9977164.....2 |
| 2 BODY 15235-4316A.....1 | 12 PLATE 8167585.....1 | 25 SCREW MS90725-3.....2 |
| 3 BUSHING 15235-05.....1 | 13 SCREW MS90725-6.....1 | 26 BELL ASSEMBLY 8527037.....1 |
| 4 NUT 15235-94.....1 | 14 SCREW MS90725-5.....8 | SEE FIGURE 22 FOR DETAILS |
| 5 CABLE ASSEMBLY SWITCH | 15 LEVER ASSEMBLY 9022333.....1 | 27 SCREW 8031098.....2 |
| 8167414.....1 | 16 WASHER AN960-10.....2 | 28 LINK ROD 8528769.....1 |
| SEE FIGURES 16 OR 17 | 17 NUT MS21044N3.....2 | 29 CABLE ASSEMBLY 11067500.....1 |
| FOR DETAILS | 18 BOLT AN3-7A.....2 | SEE FIGURE 23 FOR DETAILS |
| 6 WASHER MS35338-44.....21 | 19 LEVER 9977069.....1 | 30 BELL ASSEMBLY 8527036.....1 |
| 7 SCREW MS90725-8.....10 | 20 NUT MS21044N4.....1 | SEE FIGURE 22 FOR DETAILS |
| 8 SHELL ASSEMBLY 8526092.....2 | 21 WASHER AN960-416.....1 | |
| 9 GASKET 5183448.....1 | 22 CLEVIS 9977163.....1 | |
| 10 SHELL 5578538.....1 | 23 BOLT AN4-11A.....1 | |

* COMPONENT OF ITEM 15

FIGURE 12. ELECTRICAL INSTALLATION, LAUNCHING RAIL /8167172/
/SEE FIGURE 6 FOR NEXT HIGHER ASSEMBLY/

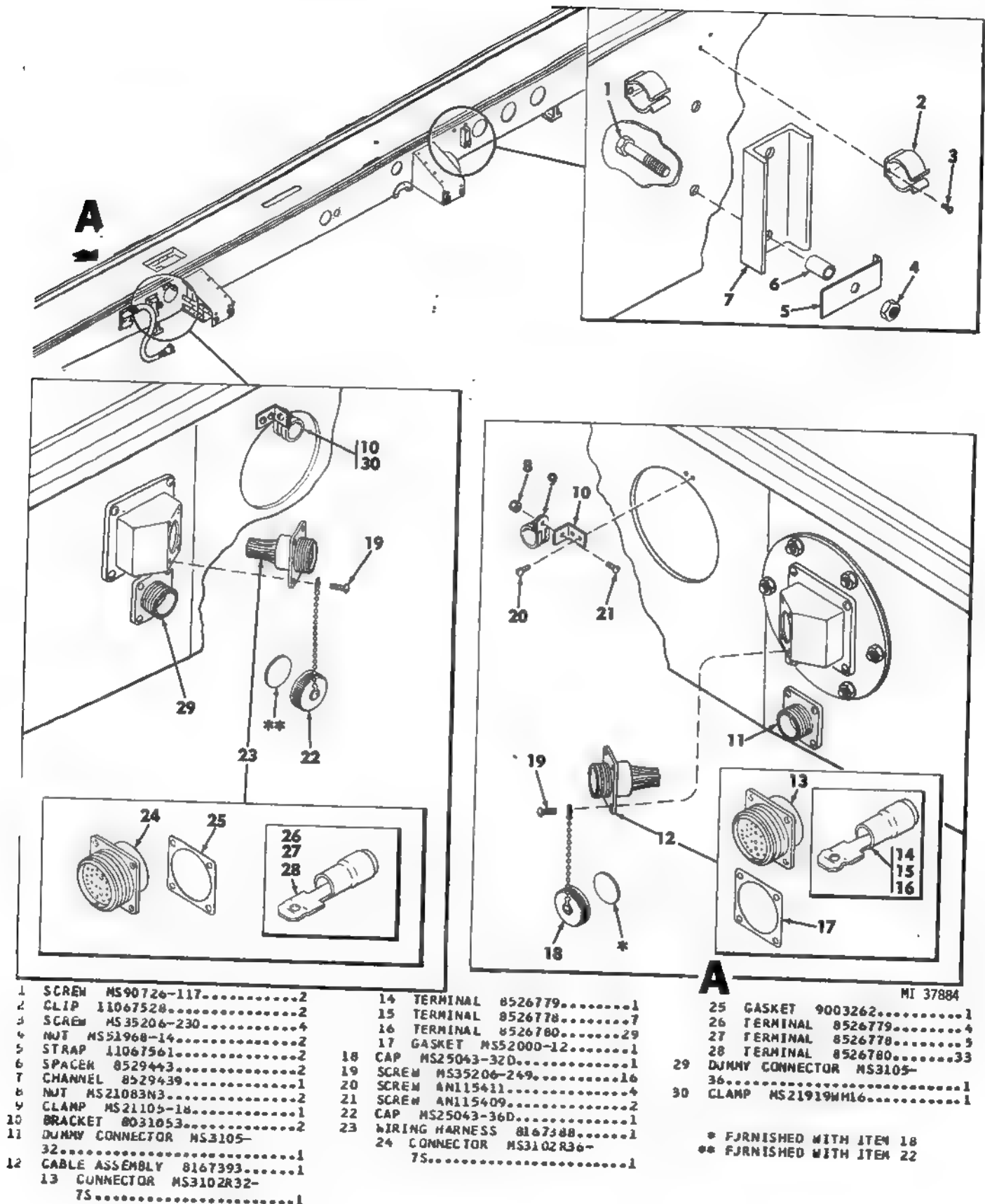
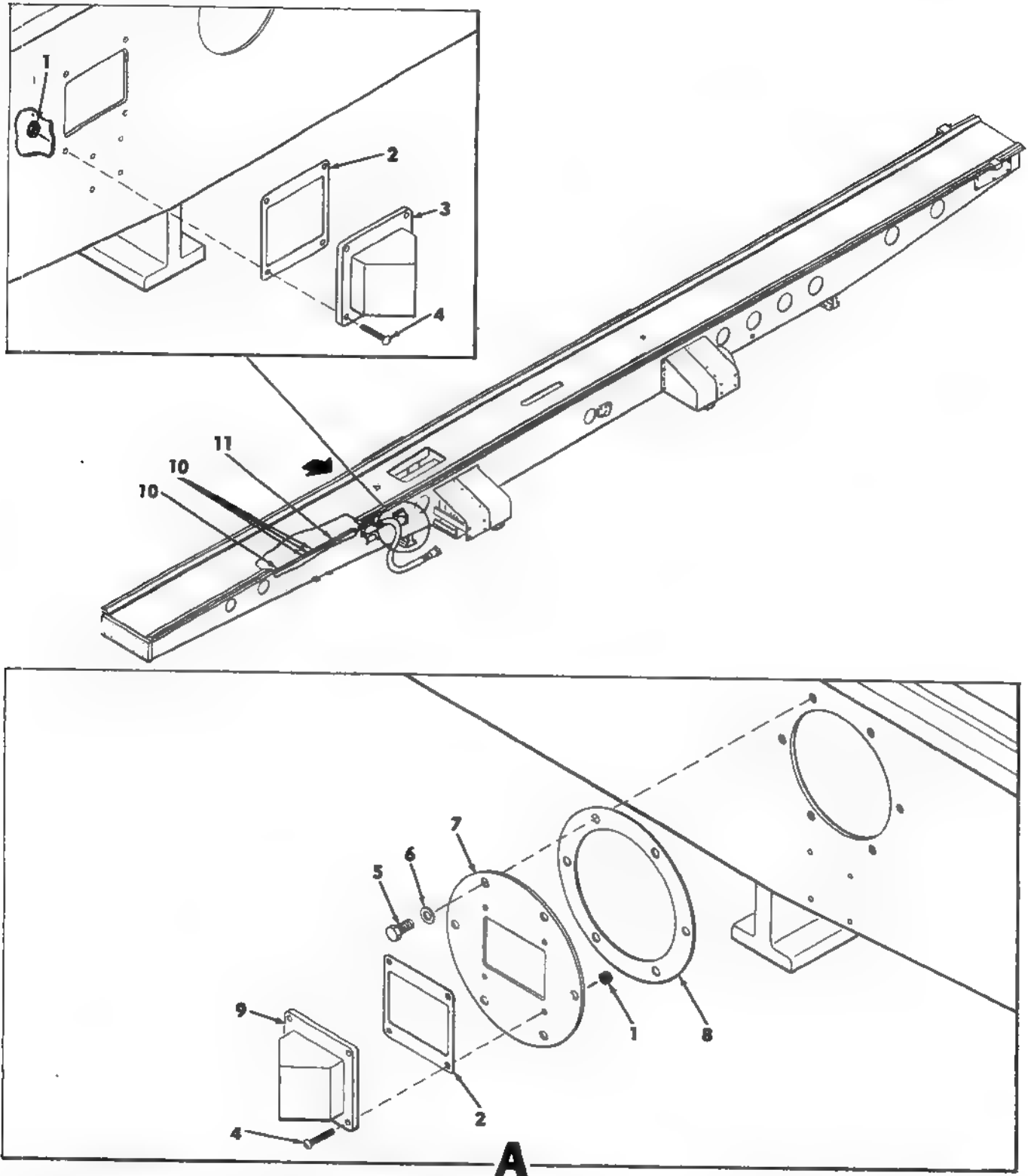


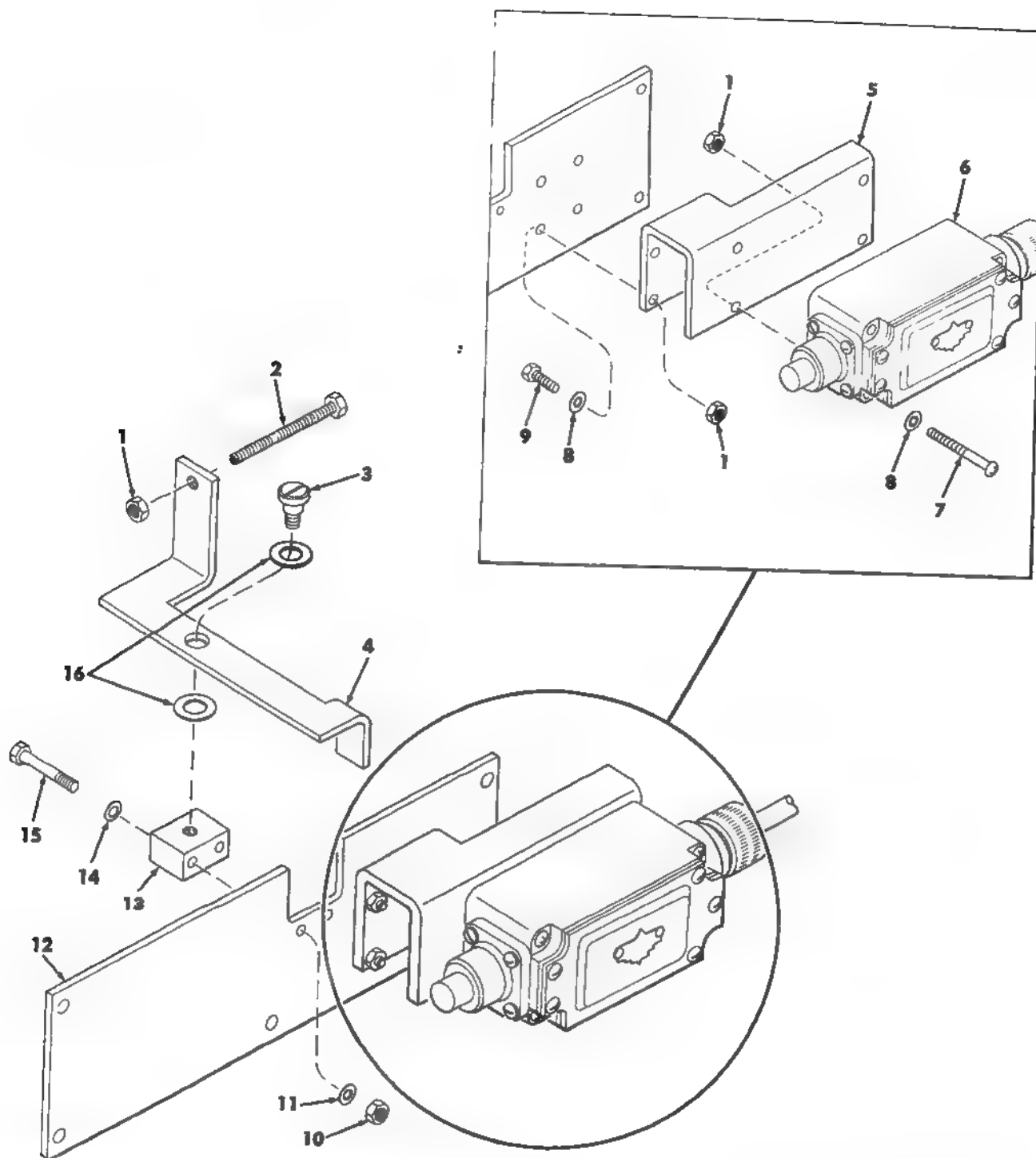
FIGURE 13. ELECTRICAL INSTALLATION, LAUNCHING RAIL /0167172/



MI 37885

| | | | | | | | | | | | |
|---|--------|-----------------|---|---|----------------|-----------------|---|----|-------|------------------|---|
| 1 | NUT | MS21044N08..... | 8 | 5 | SCREW | MS90726-8..... | 6 | 9 | COVER | 8428200..... | 1 |
| 2 | GASKET | 8428202..... | 2 | 6 | WASHER | MS27183-10..... | 6 | 10 | STRAP | MS17821-1-9..... | 4 |
| 3 | COVER | 8428201..... | 1 | 7 | PLATE ASSEMBLY | 9152160..... | 1 | 11 | STRAP | MS17821-2-2..... | 6 |
| 4 | SCREW | MS90725-8..... | 8 | 8 | GASKET | 9017736..... | 1 | | | | |

FIGURE 14. ELECTRICAL INSTALLATION, LAUNCHING RAIL /8167172/



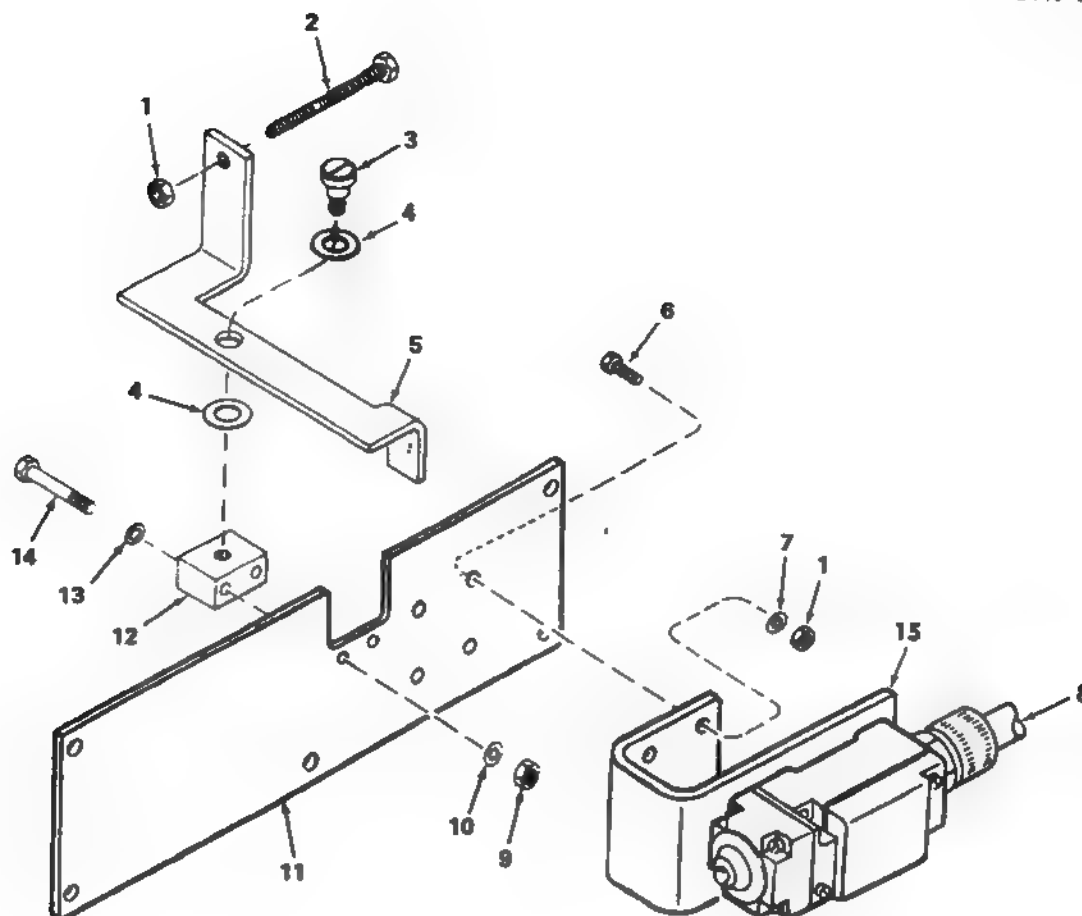
ORD 6337482

1 NUT MS51967-2.....9
2 SCREW 9020154.....1
3 SCREW 8526306.....1
4 BRACKET 8167412.....1
5 BRACKET 11067572.....1
6 CABLE ASSEMBLY 8167527.....1
SEE FIGURE 19 FOR DETAILS

7 SCREW MS51957-89.....4
8 WASHER MS35333-40.....8
9 SCREW MS90725-6.....4
10 NUT MS35650-302.....2
11 WASHER MS35333-39.....2

12 MOUNTING PLATE 8167413.....1
13 PLATE 8167494.....1
14 WASHER MS27183-8.....2
15 BOLT AN3C14A.....2
16 WASHER MS27183-14.....2

FIGURE 16. CABLE ASSEMBLY SWITCH /8167414/
/SEE FIGURE 12 FOR NEXT HIGHER ASSEMBLY/



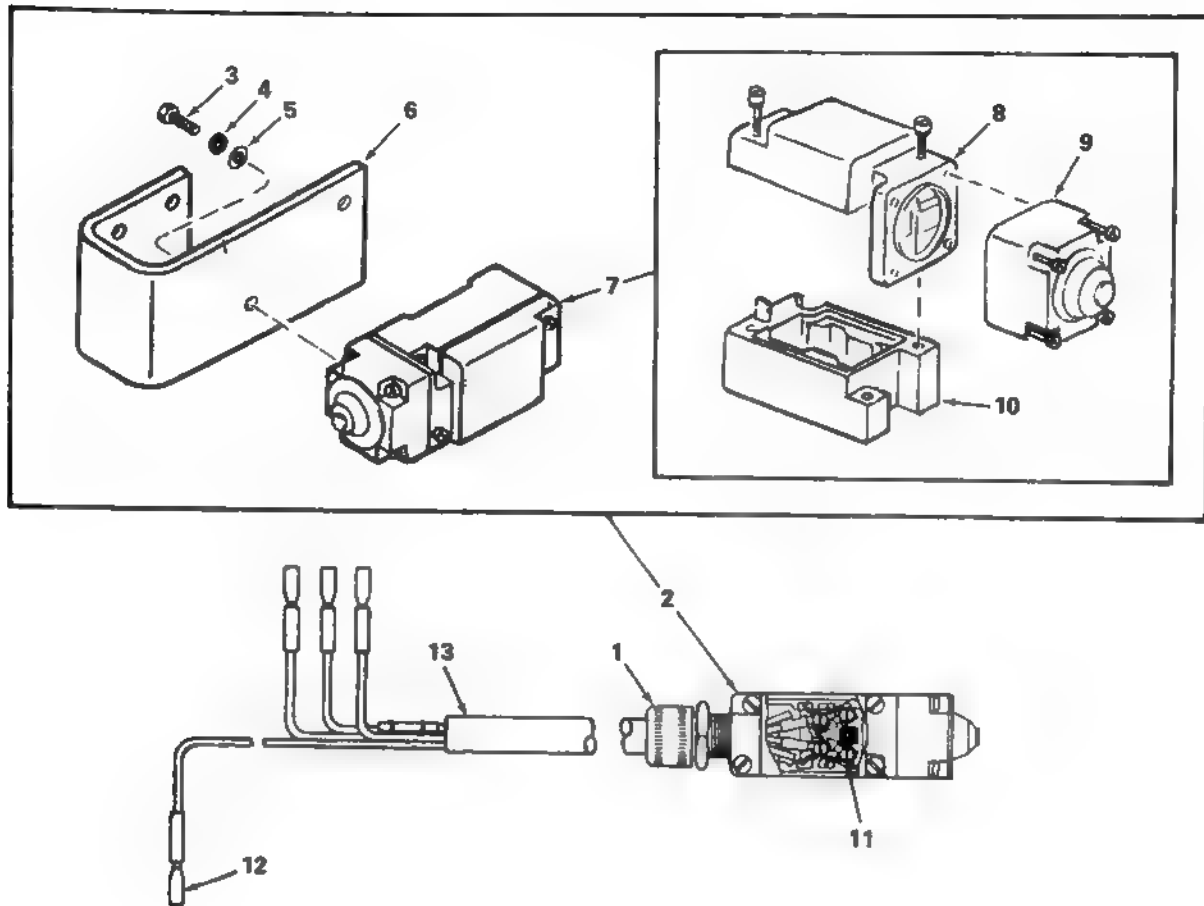
MS009949

1 NUT MS51967-2.....5
2 SCREW 9020154.....1
3 SCREW 8526306.....1
4 WASHER MS27183-14.....2
5 BRACKET 8167412.....1
6 SCREW MS90725-6.....4

7 WASHER MS35333-40.....4
8 CABLE ASSEMBLY 13060170.....1
SEE FIGURE 10 FOR DETAILS
9 NUT MS35650-302.....2
10 WASHER MS35333-39.....2
11 MOUNTING PLATE 8167413.....1

12 PLATE 8167494.....1
13 WASHER MS27183-8.....2
14 BOLT AN3C14A.....2
15 BRACKET 13060167.....1

FIGURE 17. CABLE ASSEMBLY SWITCH /8167414/
/SEE FIGURE 12 FOR NEXT HIGHER ASSEMBLY/



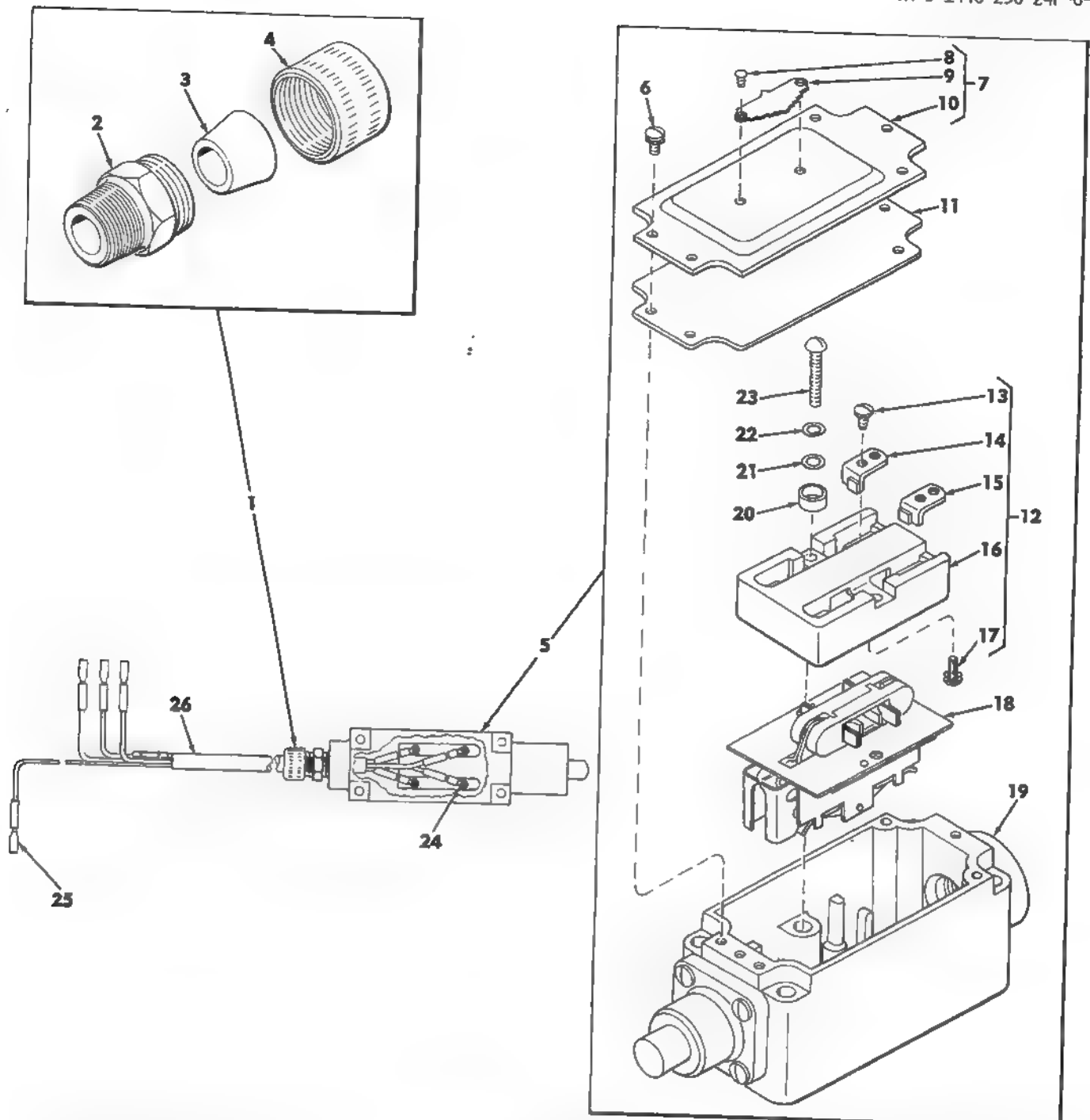
MS010150

1 BOX CONNECTOR 9111745.....1
 2 SWITCH/BRACKET ASSEMBLY
 13060166.....1
 3 SCREW NAS1096-3-09.....2
 4 WASHER MS35338-138.....2
 5 WASHER NAS620C10L.....2

6 BRACKET 13060167.....1
 7 SWITCH ASSEMBLY
 13060166.....1
 8 BODY E50SA.....1
 9 TOP PUSHBUTTON
 E50DT1.....1

10 RECEPTACLE E50RA.....1
 11 TERMINAL MS25036-103.....4
 12 TERMINAL B526780.....4
 13 CABLE 070618.....1

FIGURE 18. CABLE ASSEMBLY /13060170/
 /SEE FIGURE 17 FOR NEXT HIGHER ASSEMBLY/

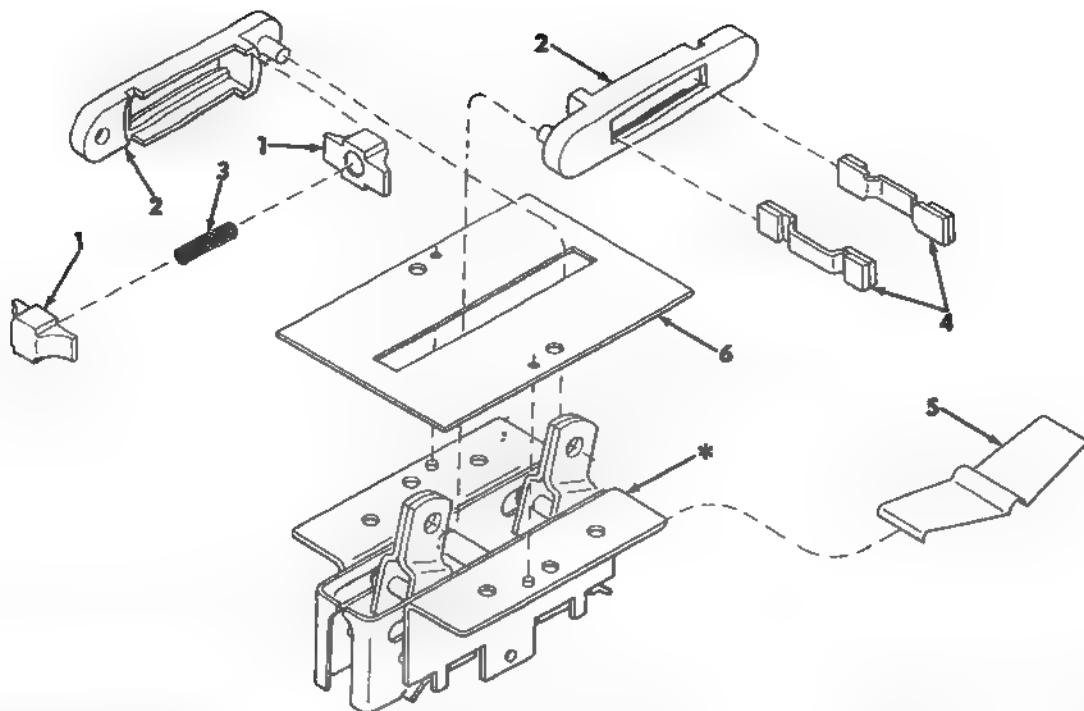


- 1 BOX CONNECTOR 9111745.....1
2 BODY 15235-4316A.....1
3 BUSHING 15235-05.....1
4 NUT 15235-94.....1
5 SWITCH 13060166.....1
6 SCREW 15605-11-824.....5
7 COVER 15605-49-2785-2.....1
8 SCREW 15605-12-148.....2
9 PLATE 15605-30-489.....1
10 COVER 15605-49-2785.....1
11 GASKET 15605-27-294.....1

- 12 CONTACT ASSEMBLY 9018424.....1
13 SCREW 15605-11-419.....4
14 CONTACT 15605-21-507-3.....1
15 CONTACT 15605-21-507-2.....1
16 TERMINAL BOARD 15605-17-1775-2.....1
17 SCREW 15605-11-824.....2
18 SWITCH SUBASSEMBLY 8527134.....1
SEE FIGURE 20 FOR DETAILS

- 19 HOUSING 15605-49-3161.....1
SEE FIGURE 21 FOR DETAILS
20 SPACER 15605-16-22.....2
21 WASHER 15605-816-401.....2
22 WASHER 15605-16-42.....2
23 SCREW 15605-911-4362.....2
24 TERMINAL MS25036-103.....4
25 TERMINAL 8526780.....4
26 CABLE 070618.....*

FIGURE 19. CABLE ASSEMBLY /8167527/
/SEE FIGURE 16 FOR NEXT HIGHER ASSEMBLY/



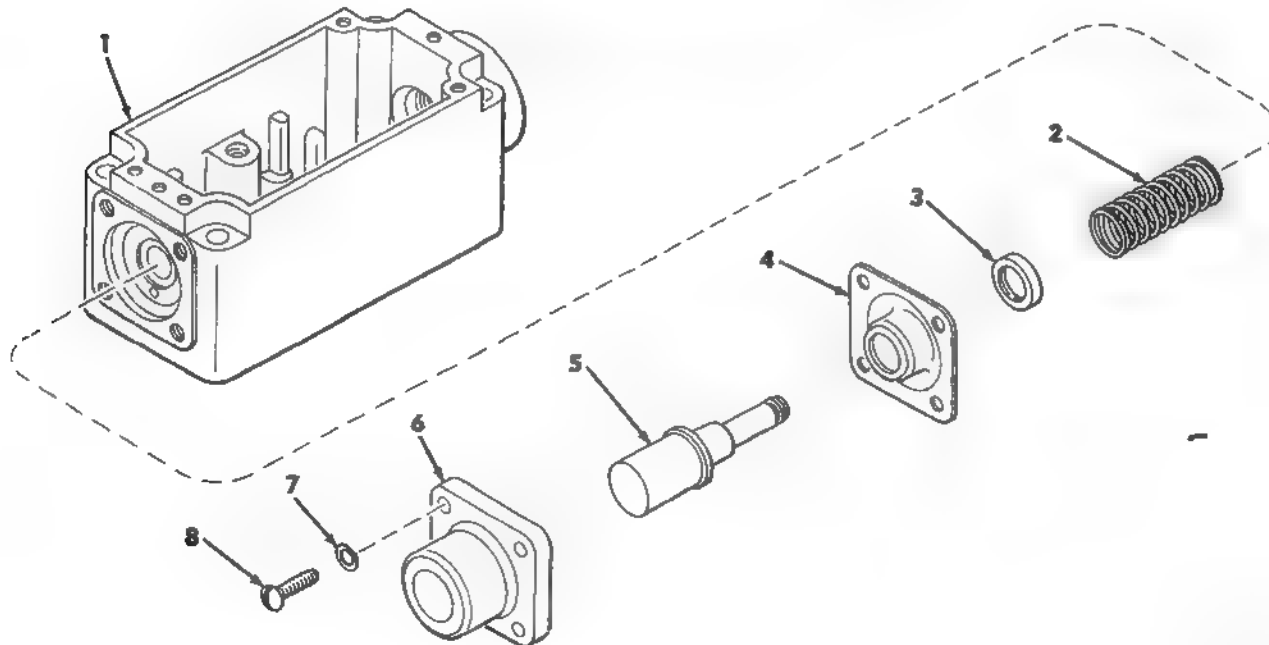
- 1 RETAINER 15605-55-534.....2
2 TERMINAL BOARD 15605-17-1774-2.....2
3 SPRING 15605-69-920.....1

- 4 CONTACT 15605-21-308-3.....2
5 CLIP 15605-69-919.....1
6 PLATE 15605-56-1225.....1

ORD G266077

* COMPONENT OF SWITCH
SUBASSEMBLY 8527134

FIGURE 20. SWITCH SUBASSEMBLY /8527134/
/SEE FIGURE 19 FOR NEXT HIGHER ASSEMBLY/



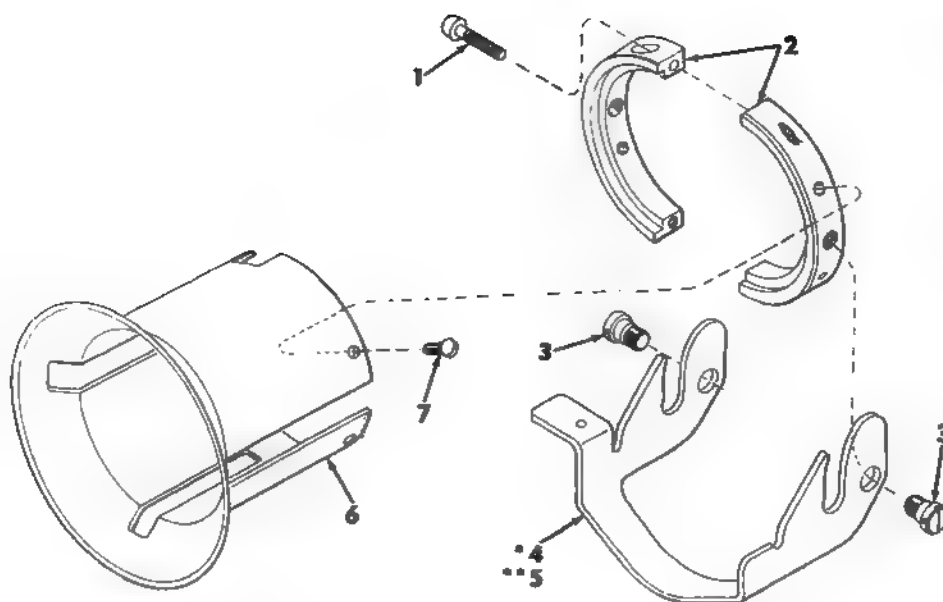
ORD G266078

- 1 HOUSING 15605-49-1819.....1
2 SPRING 8527169.....1
3 WASHER 15605-16-909.....1

- 4 BUMPER 15605-16-1710.....1
5 PLUNGER 15605-51-858.....1
6 GUIDE 15605-20-722.....1

- 7 WASHER 15605-916-4842.....4
8 SCREW 15605-911-5002.....4

FIGURE 21. HOUSING, SENSITIVE SWITCH /15605-49-3161/
/SEE FIGURE 19 FOR NEXT HIGHER ASSEMBLY/



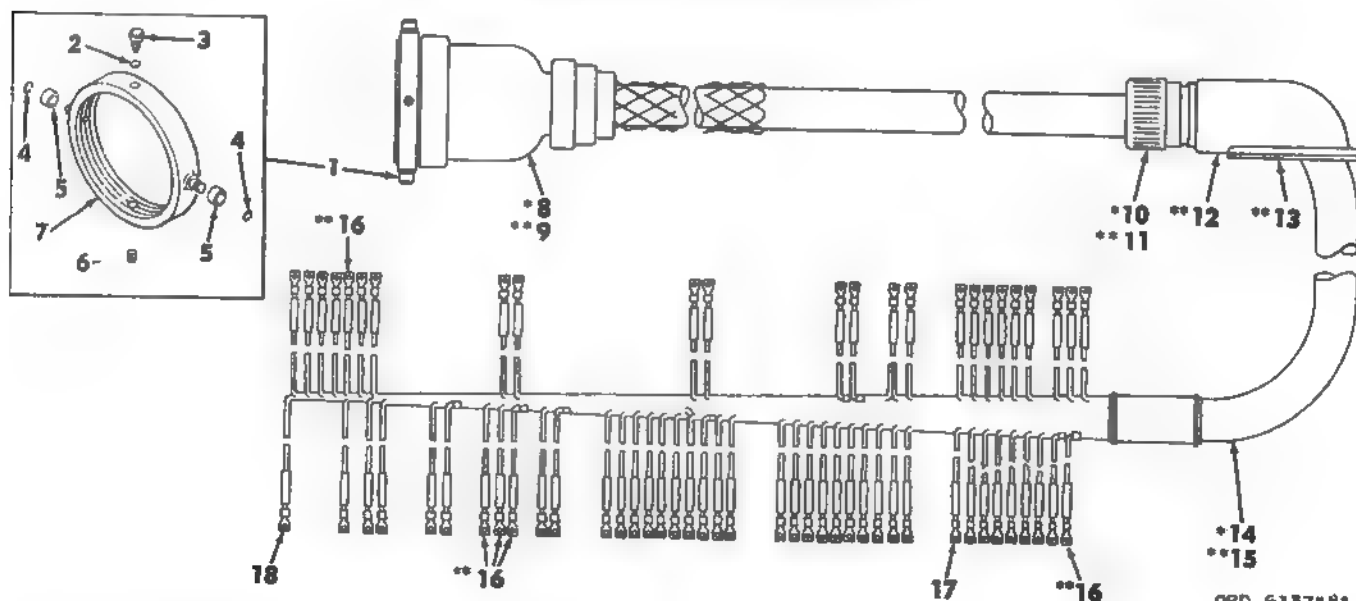
ORD 6297306

- 1 SCREW MS16998-29.....2
2 SPACER 8428291.....2
3 SCREW 8428294.....2
4 CAM 8428293.....1

- 5 CAM 8428292.....1
6 BODY 8428290.....1
7 SCREW MS35207-260.....4

* FOR BELL ASSEMBLY 8527036
** FOR BELL ASSEMBLY 8527037

FIGURE 22. BELL ASSEMBLY, ELECTRICAL INSTALLATION /8527036 AND 8527037/
/SEE FIGURE 12 FOR NEXT HIGHER ASSEMBLY/



ORD 6337481

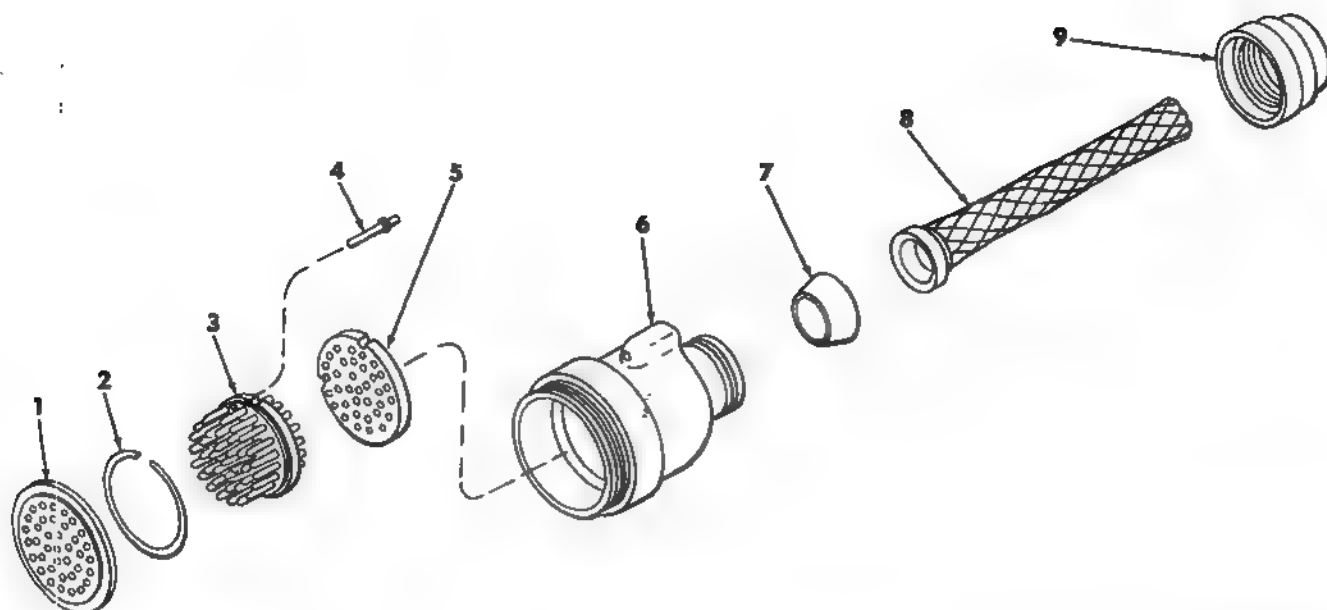
- A ADAPTER 8526762.....1
2 WASHER MS35338-43.....1
3 SCREW 8428221.....1
4 RING MS16632-1037.....2
5 ROLLER 8428222.....2
6 SETSCREW MS51964-49.....1
7 RING 8428223.....1
8 CONNECTOR 8526871.....1
SEE FIGURE 24 FOR DETAILS

- 9 CONNECTOR 11067515.....1
SEE FIGURE 25 FOR DETAILS
10 ADAPTER 8020622.....1
11 CONDUIT OUTLET 8528011.....1
12 COVER 8528508.....1
13 GASKET 8022002.....1
14 CABLE 2610655.....*

- 15 CABLE 11067508.....*
16 TERMINAL 8526779.....5
17 TERMINAL 8526778.....15
18 TERMINAL 8526780.....60

* FOR CABLE ASSEMBLY 11067500
** FOR CABLE ASSEMBLY 11067544

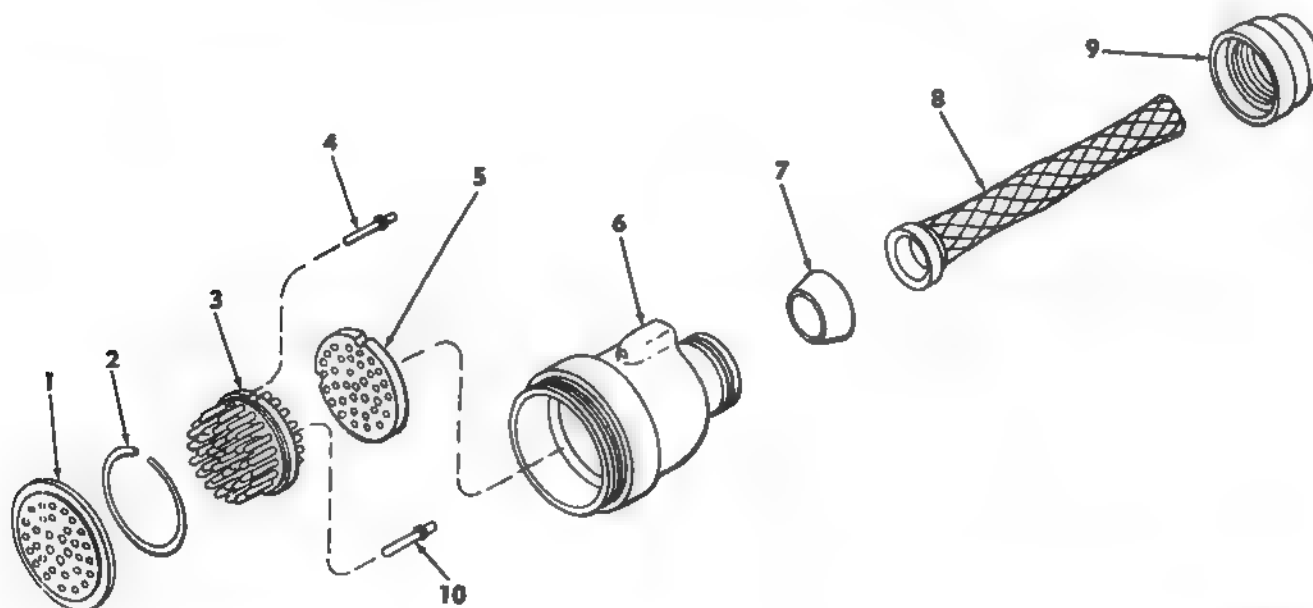
FIGURE 23. CABLE ASSEMBLY, POWER, ELECTRICAL /11067500 AND 11067544/
/SEE FIGURES 12 AND 15 FOR NEXT HIGHER ASSEMBLY/



ORD G337002

| | | |
|---------------------------|---------------------------|-------------------------|
| 1 INSULATOR 7632548.....1 | 4 CONTACT 7632546.....28 | 7 BUSHING 540631.....1 |
| 2 RING 5183444.....1 | 5 INSULATOR 7632550.....1 | 8 GRIP 8206675.....1 |
| 3 INSULATOR 7632547.....1 | 6 SHELL 8428195.....1 | 9 ADAPTER 8428141.....1 |

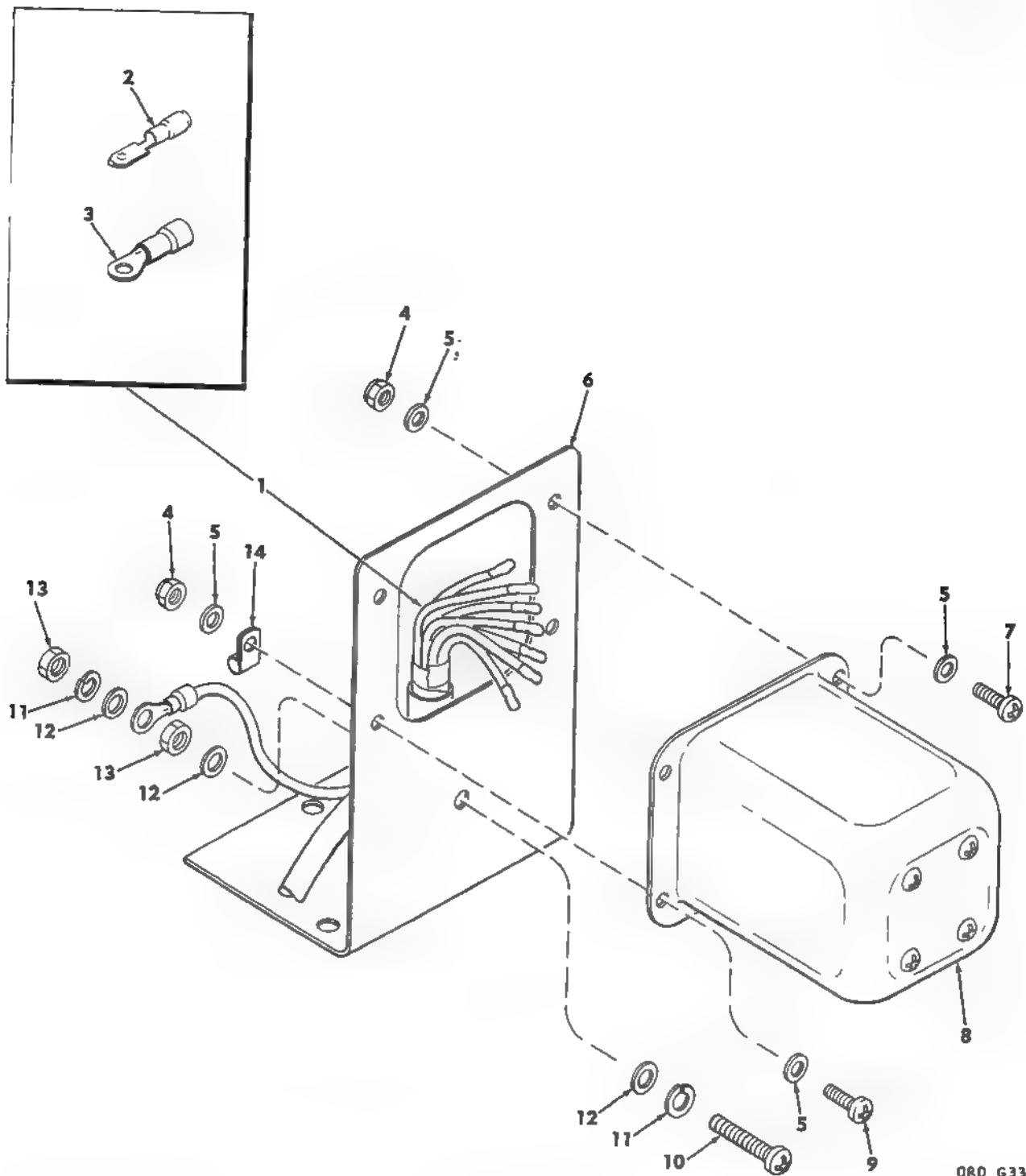
FIGURE 24. CONNECTOR, PLUG, ELECTRICAL /8526871/
/SEE FIGURE 23 FOR NEXT HIGHER ASSEMBLY/



ORD G337003

| | | |
|---------------------------|---------------------------|--------------------------|
| 1 GROMMET 8428264.....1 | 5 INSULATOR 8428263.....1 | 9 ADAPTER 11067512.....1 |
| 2 RING 5183444.....1 | 6 SHELL 11067511.....1 | 10 CONTACT 8428266.....3 |
| 3 INSULATOR 8428262.....1 | 7 BUSHING 540683.....1 | |
| 4 CONTACT 8428265.....2 | 8 GRIP 11067574.....1 | |

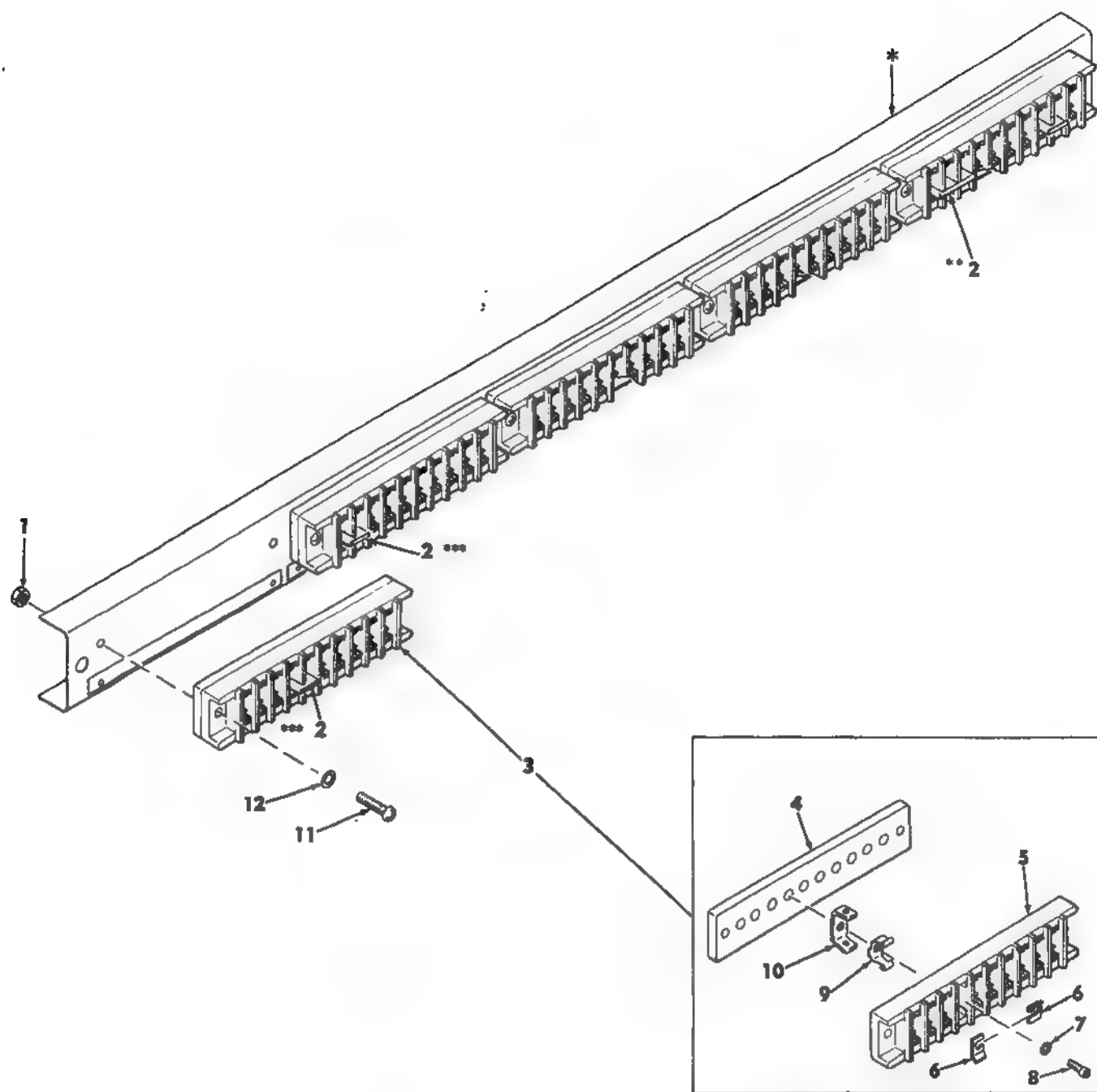
FIGURE 25. CONNECTOR, PLUG, ELECTRICAL ASSEMBLY /11067515/
/SEE FIGURE 23 FOR NEXT HIGHER ASSEMBLY/



ORD G337004

| | | | | | |
|---|------------------------------|----|-------------------------|----|-------------------------|
| 1 | CABLE ASSEMBLY 8521461.....1 | 6 | BRACKET 8521463.....1 | 11 | WASHER MS35338-42.....2 |
| 2 | TERMINAL 8526780.....9 | 7 | SCREW MS51957-28.....3 | 12 | WASHER MS27183-7.....3 |
| 3 | TERMINAL MS25036-103.....1 | 8 | RELAY 8428219.....1 | 13 | NUT MS35649-282.....2 |
| 4 | NUT MS21083N06.....4 | 9 | SCREW MS35206-230.....1 | 14 | CLAMP MS25281R4.....1 |
| 5 | WASHER MS27183-5.....8 | 10 | SCREW MS35206-249.....1 | | |

FIGURE 26. RELAY ASSEMBLY, BLOWER /8521464/
/SEE FIGURE 15 FOR NEXT HIGHER ASSEMBLY/



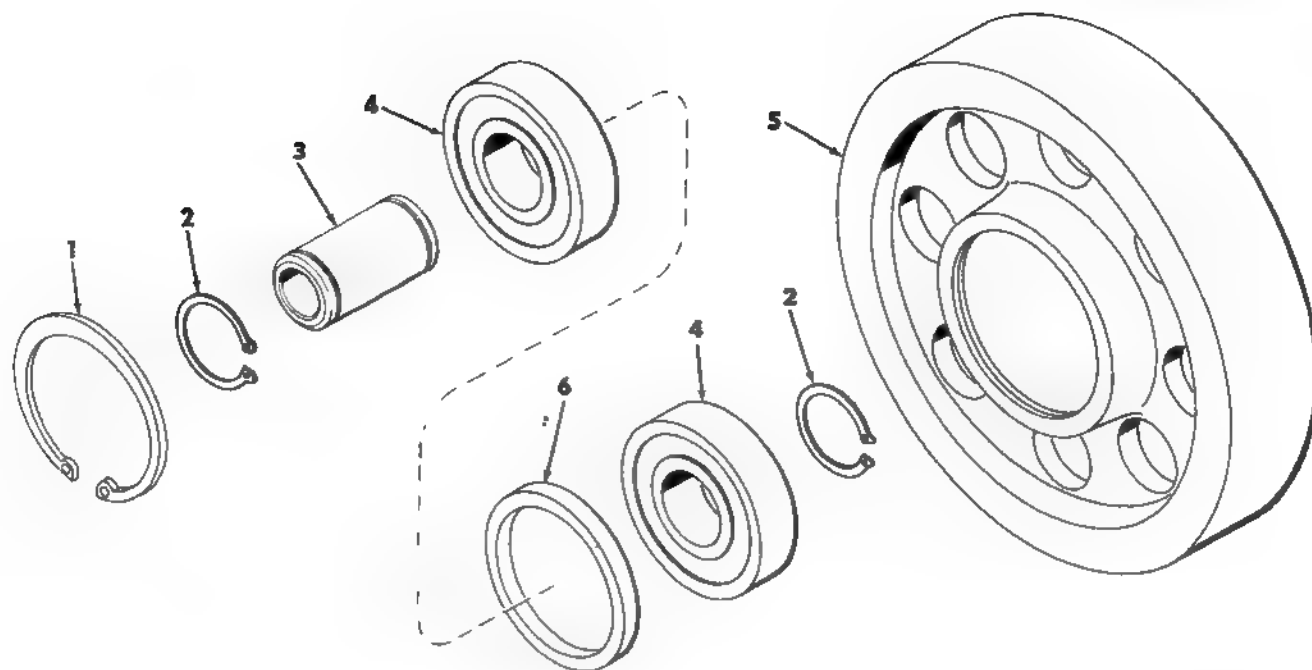
MI 37886

1 NUT MS21083N06.....10
 2 BUS BAR 8528938.....4
 3 TERMINAL BOARD 8528926.....5
 4 BASE T1006-2.....1
 5 BOARD T1006-1.....1
 6 CLIP T1003.....2

7 WASHER T1002.....1
 8 SCREW T1001.....1
 9 CONTACT T1004.....1
 10 BRACKET T1005.....1
 11 SCREW MS5195T-32.....10
 12 WASHER MS27183-5.....10

* COMPONENT OF TERMINAL BOARD
 8525120 AND 8525121
 ** FOR TERMINAL BOARD 8525120
 *** FOR TERMINAL BOARD 8525121

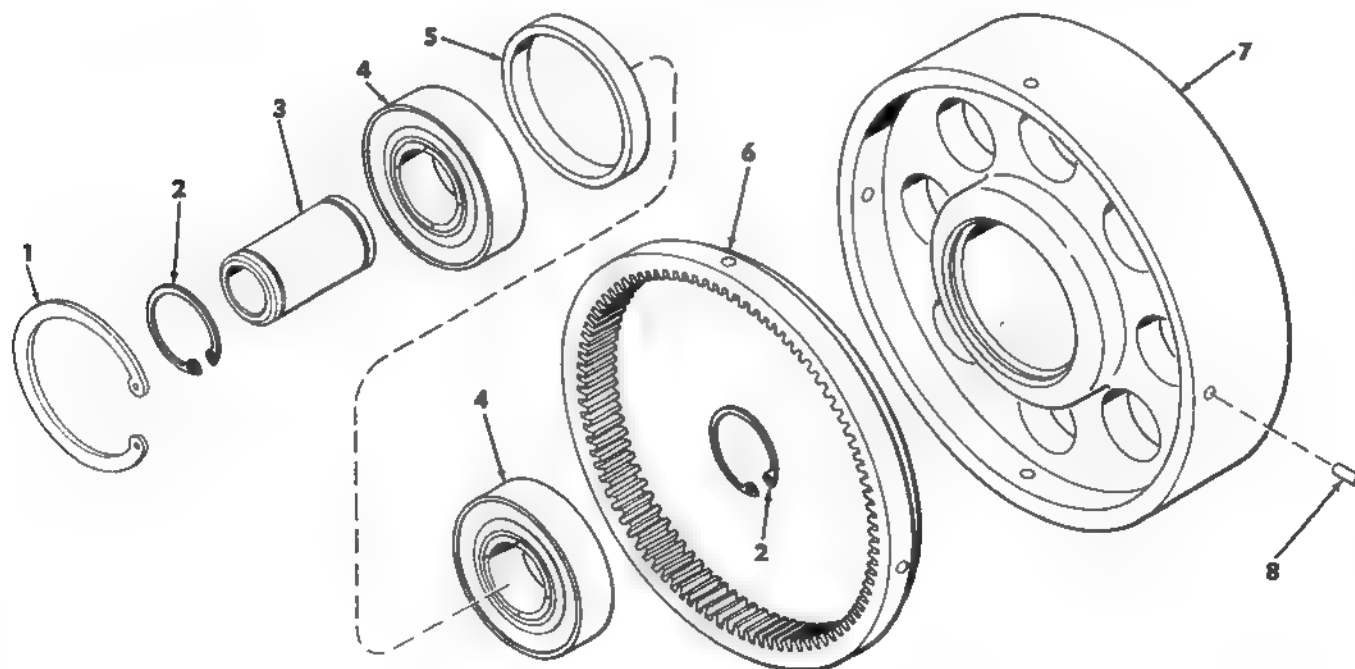
FIGURE 27. TERMINAL BOARD /8525120 AND 8525121/
 /SEE FIGURE 15 FOR NEXT HIGHER ASSEMBLY/



ORD G297309

| | | |
|---------------------------|-------------------------|------------------------|
| 1 RING MS16625-1315.....1 | 3 SLEEVE 11067563.....1 | 5 WHEEL 8167417.....1 |
| 2 RING MS16626-1137.....2 | 4 BEARING 8528201.....2 | 6 SPACER 8167420.....1 |

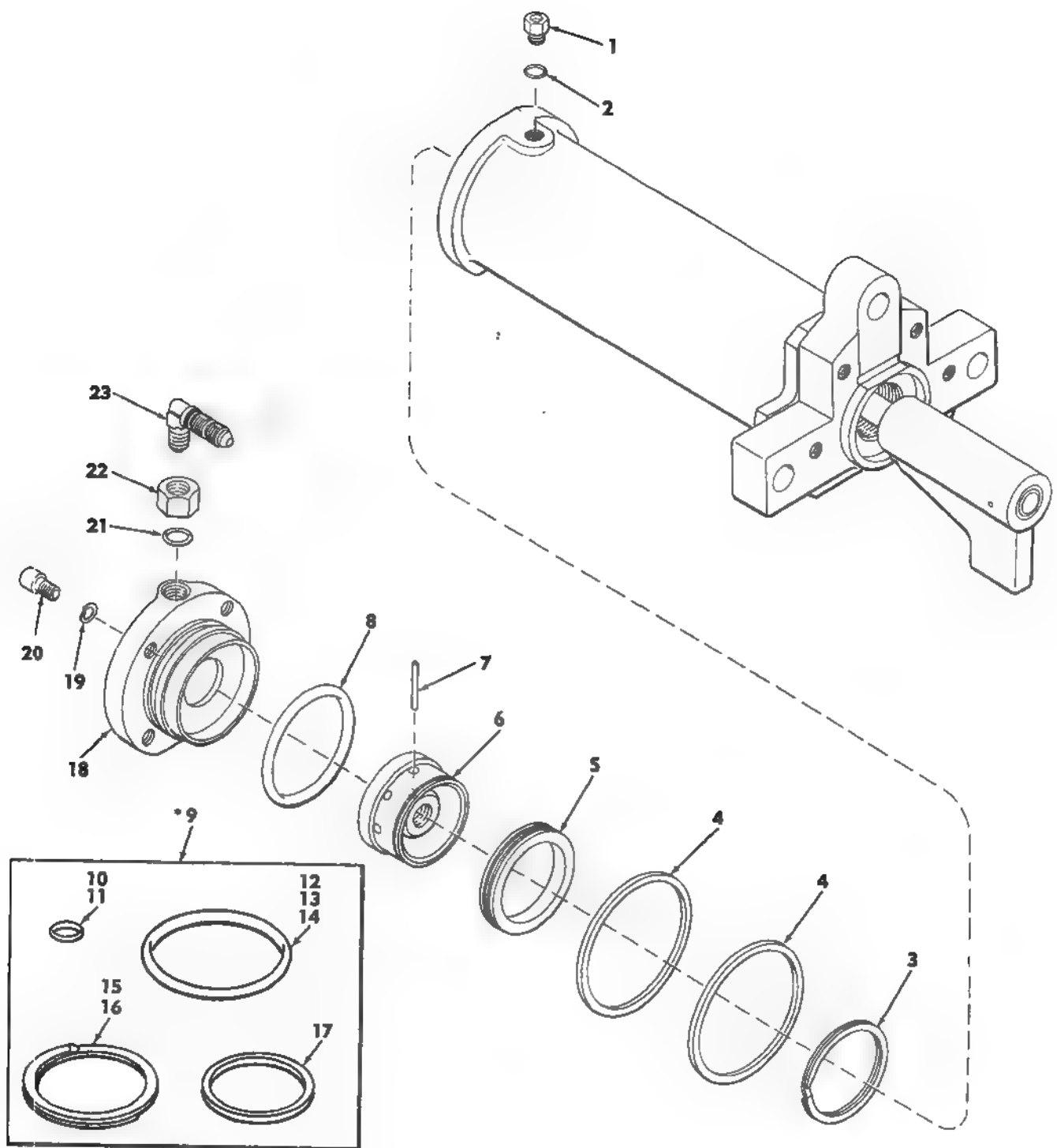
FIGURE 28. WHEEL ASSEMBLY /8167416/
/SEE FIGURE 8 FOR NEXT HIGHER ASSEMBLY/



ORD G297310

| | | |
|---------------------------|-------------------------|-----------------------|
| 1 RING MS16625-1315.....1 | 4 BEARING 8528201.....2 | 7 WHEEL 8167436.....1 |
| 2 RING MS16626-1137.....2 | 5 SPACER 8167420.....1 | 8 PIN 589919.....4 |
| 3 SLEEVE 11067563.....1 | 6 GEAR 8167434.....1 | |

FIGURE 29. WHEEL ASSEMBLY /8167435/
/SEE FIGURE 8 FOR NEXT HIGHER ASSEMBLY/



MI 37887

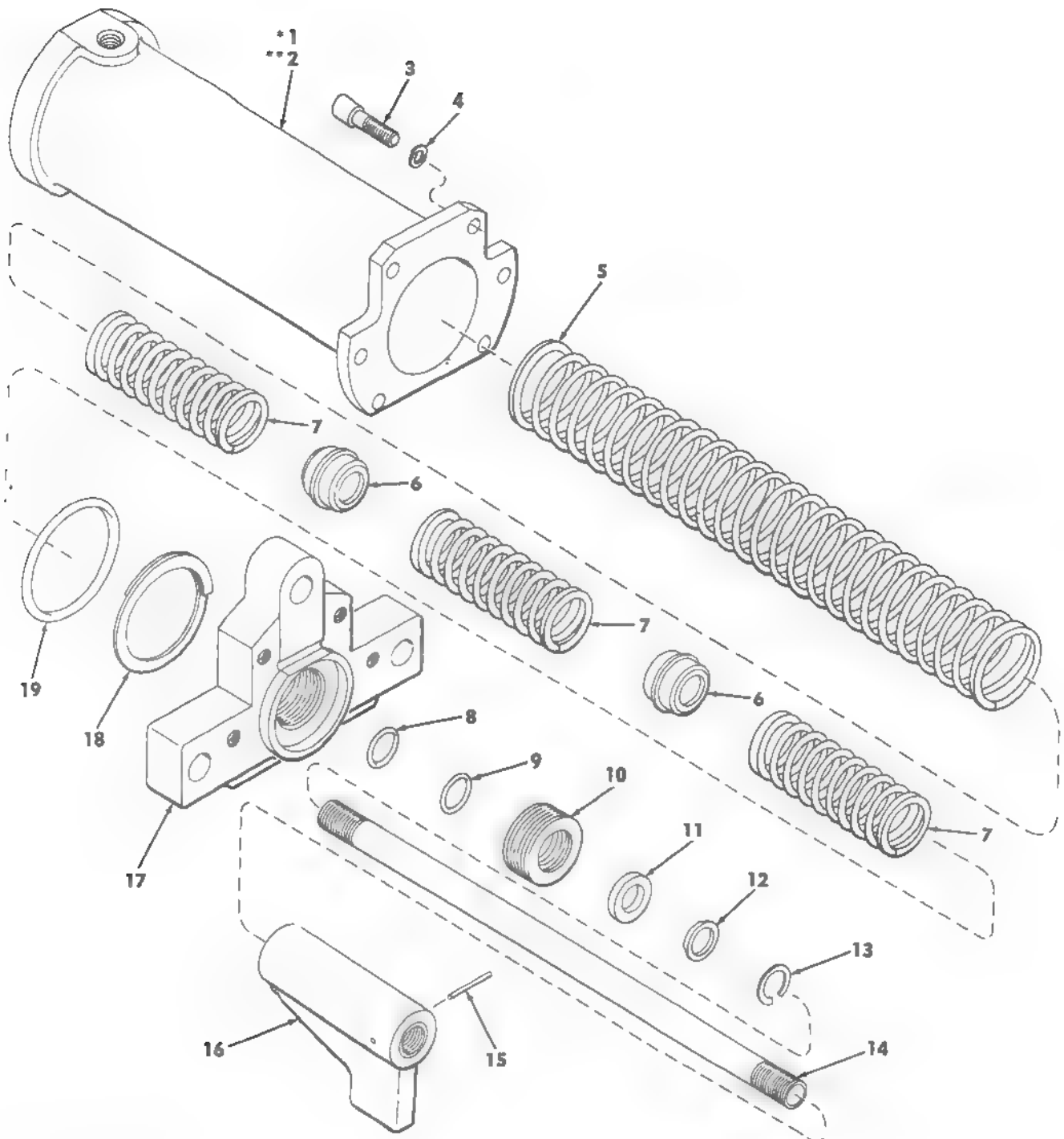
1 PLUG ANB14-2.....1
2 PACKING MS28778-2.....1
3 RING 10015592-050.....1
4 RING 8167778.....2
5 PISTON 9025991.....1
6 PISTON 9025992.....1
7 PIN 506088.....1
8 GASKET AN230-7.....1
9 REPAIR KIT 5952134.....1

10 PACKING MS28778-2.....1
11 PACKING 10596841-1.....1
12 PACKING MS28775-113.....1
13 PACKING MS28775-229.....1
14 PACKING MS28775-330.....1
15 RETAINER MS28782-12.....1
16 RETAINER MS28782-33.....1
17 FELT STRIP MS28932C-02-06.....1

18 CAP 8525177.....1
19 WASHER MS35338-45.....4
20 SCREW MS16998-55.....4
21 PACKING 10596841-1.....1
22 NUT MS2440004.....1
23 ELBOW MS2439404.....1

* ISSUED AS SEPARATE UNIT

FIGURE 30. CYLINDER ASSEMBLY, ACTUATING, LINEAR /8521441 AND 8521453/
/SEE FIGURE 9 FOR NEXT HIGHER ASSEMBLY/

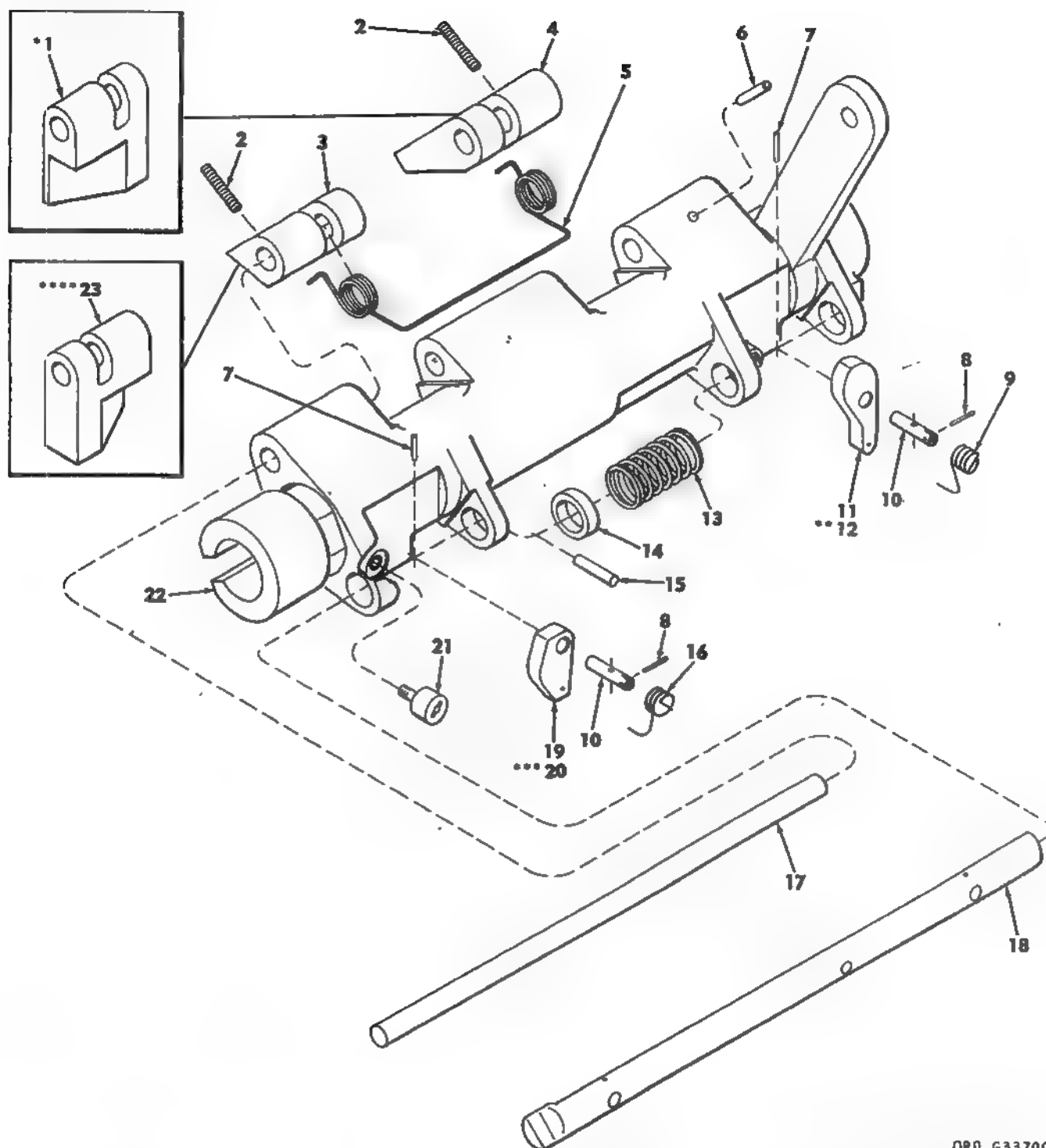


UKD G297312

| | | | | | | | | |
|---|----------|------------------|----|------------------|--------------------|----|----------|------------------|
| 1 | CYLINDER | 8525175.....1 | 10 | PACKING NUT | 8167121.....1 | 18 | RETAINER | MS28782-33.....1 |
| 2 | CYLINDER | 8525176.....1 | 11 | PACKING MATERIAL | MS28932-1.....1 | 19 | PACKING | 8034483.....1 |
| 3 | SCREW | MS16998-59.....6 | 12 | RING | MS28776M2-3.....1 | | | |
| 4 | WASHER | MS35338-45.....6 | 13 | RING | MS16627-1093.....1 | | | |
| 5 | SPRING | 8525166.....1 | 14 | ROD | 8167962.....1 | | | |
| 6 | SPACER | 8525067.....2 | 15 | PIN | 586088.....1 | | | |
| 7 | SPRING | 8525170.....3 | 16 | PLUG | 8525202.....1 | | | |
| 8 | PACKING | 8034454.....1 | 17 | HEAD | 8525031.....1 | | | |
| 9 | RETAINER | MS28782-12.....1 | | | | | | |

* FOR CYLINDER ASSEMBLY
8521453
** FOR CYLINDER ASSEMBLY
8521441

FIGURE 31. CYLINDER ASSEMBLY, ACTUATING, LINEAR /8521441 AND 8521453/



ORD G337006

| | | | | | |
|----|------------------------|----|----------------------|----|-----------------------------|
| 1 | LATCH 11067554.....1 | 11 | CAM 8530898.....1 | 21 | FOLLOWER 8364660.....2 |
| 2 | SETSCREW 9151244.....2 | 12 | CAM 11067555.....1 | 22 | STOP ASSEMBLY 8525272.....1 |
| 3 | LATCH 8525250.....1 | 13 | SPRING 9031263.....1 | 23 | LATCH 11067553.....1 |
| 4 | LATCH 8525251.....1 | 14 | SPACER 8167465.....1 | | |
| 5 | SPRING 9031249.....1 | 15 | PIN MS16562-49.....1 | | |
| 6 | PIN MS16562-50.....2 | 16 | SPRING 8530890.....1 | | |
| 7 | PIN MS16562-8.....2 | 17 | PIN 9031260.....1 | | |
| 8 | PIN MS16562-3.....2 | 18 | PIN 9030169.....1 | | |
| 9 | SPRING 8530904.....1 | 19 | CAM 8530897.....1 | | |
| 10 | PIN 8530889.....2 | 20 | CAM 11067556.....1 | | |

* ALTERNATE FOR ITEM 4
 ** ALTERNATE FOR ITEM 11
 *** ALTERNATE FOR ITEM 19
 **** ALTERNATE FOR ITEM 3

FIGURE 32. BRAKE, LAUNCHING RAIL /8525285/
 /SEE FIGURE 9 FOR NEXT HIGHER ASSEMBLY/

SECTION IV. NUMERICAL INDEX

| REFERENCE NUMBER | FIG. NO. | ITEM NO. | REFERENCE NUMBER | FIG. NO. | ITEM NO. | REFERENCE NUMBER | FIG. NO. | ITEM NO. |
|---------------------|-------------|-------------|---------------------|-------------|-------------|---------------------|-------------|-------------|
| AN115409 | 13 | 21 | MILT6845 1-4X-035 | 7 | 4 | MS20068-122 | 8 | 16 |
| AN115411 | 13 | 20 | | 7 | 12 | MS20074-10-23 | 2 | 7 |
| AN3-3A | 11 | 17 | | 7 | 20 | MS20392-5C31 | 4 | 5 |
| AN3-7A | 12 | 18 | MS16555-60 | 9 | 5 | | 5 | 19 |
| AN3C14A | 16 | 15 | MS16562-3 | 32 | 8 | MS20392-7C95 | 11 | 7 |
| | 17 | 14 | MS16562-33 | 11 | 21 | MS20819-4 | 7 | 11 |
| AN4-11A | 12 | 23 | MS16562-34 | 11 | 3 | | 7 | 24 |
| AN415-1-1 | 4 | 7 | MS16562-36 | 10 | 18 | MS20819-4J | 7 | 3 |
| | 5 | 1 | MS16562-49 | 32 | 15 | | 7 | 19 |
| AN520-0-2 | 3 | 9 | MS16562-50 | 9 | 11 | MS21044N08 | 14 | 1 |
| AN6-11 | 4 | 9 | | 32 | 6 | MS21044N3 | 12 | 17 |
| AN6230-7 | 30 | 8 | MS16562-65 | 4 | 2 | | 15 | 3 |
| AN814-2 | 30 | 1 | MS16562-8 | 32 | 7 | MS21044N4 | 12 | 20 |
| AN814-4-4C | 7 | 7 | MS16624-1087 | 5 | 4 | MS21083N06 | 26 | 4 |
| AN818-4 | 7 | 10 | MS16625-1315 | 28 | 1 | | 27 | 1 |
| | 7 | 23 | | 29 | 1 | MS21083N3 | 13 | 8 |
| AN818-4C | 7 | 2 | MS16626-1059 | 8 | 24 | MS21104C10 | 15 | 25 |
| | 7 | 18 | MS16626-1068 | 8 | 12 | MS21105-18 | 13 | 9 |
| AN824-4C | 7 | 13 | MS16626-1137 | 28 | 2 | MS21919WH16 | 13 | 30 |
| AN833-C4 | 7 | 5 | | 29 | 2 | MS21920-26R | 3 | 13 |
| AN924-4J | 7 | 6 | MS16627-1093 | 31 | 13 | MS2439404 | 30 | 23 |
| AN960-10 | 12 | 16 | MS16632-1037 | 23 | 4 | MS24395J4 | 7 | 21 |
| AN960-1216L | 8 | 11 | MS16998-29 | 22 | 1 | MS24400D4 | 30 | 22 |
| AN960-416 | 12 | 21 | MS16998-55 | 30 | 20 | MS24629-20 | 2 | 4 |
| AN960C1616L | 8 | 19 | MS16998-59 | 31 | 3 | | 3 | 30 |
| AN960C616L | 11 | 24 | MS17821-1-9 | 14 | 10 | MS24665-155 | 10 | 5 |
| F50DT1 | 18 | 9 | MS17821-2-2 | 14 | 11 | MS24665-302 | 11 | 4 |
| F50RA | 18 | 10 | MS18154-60 | 8 | 15 | MS24668-11 | 8 | 3 |
| F50SA | 18 | 8 | MS20002-8 | 10 | 17 | MS25036-103 | 18 | 11 |
| MILC13777-2-090675 | 15 | 10 | MS20067-118 | 5 | 13 | | 19 | 24 |
| | | | | | | MS25043-320 | 26 | 3 |
| | | | | | | | 13 | 18 |

| REFERENCE NUMBER | FIG. NO. | ITEM NO. | REFERENCE NUMBER | FIG. NO. | ITEM NO. | REFERENCE NUMBER | FIG. NO. | ITEM NO. |
|---------------------|-------------|-------------|---------------------|-------------|-------------|---------------------|-------------|-------------|
| 8530889 | 32 | 10 | 9032143 | 10 | 6 | | | |
| 8530890 | 32 | 16 | 9032212 | 2 | 11 | | | |
| 8530897 | 32 | 19 | 9032471 | 5 | 14 | | | |
| 8530898 | 32 | 11 | 9032472 | 4 | 15 | | | |
| 8530904 | 32 | 9 | 9032475 | 4 | 16 | | | |
| 9003262 | 13 | 25 | 9034320 | 2 | 1 | | | |
| 9017736 | 14 | 8 | 911-4362 | 19 | 23 | | | |
| 9017737 | 2 | 17 | 911-5002 | 21 | 8 | | | |
| 9018424 | 19 | 12 | 9111745 | 12 | 1 | | | |
| 9018668-1 | 15 | 11 | | 18 | 1 | | | |
| 9018840 | 4 | 10 | | 19 | 1 | | | |
| | 5 | 7 | 9112718 | 15 | 13 | | | |
| | 8 | 33 | 9151244 | 9 | 15 | | | |
| | 10 | 23 | | 32 | 2 | | | |
| 9019000 | 9 | 4 | 9151329 | 8 | 13 | | | |
| 9019275 | 11 | 2 | 9151469 | 8 | 34 | | | |
| 9019300 | 11 | 1 | 9151643 | 10 | 8 | | | |
| 9020154 | 16 | 2 | 9151815 | 10 | 24 | | | |
| | 17 | 2 | 9152160 | 14 | 7 | | | |
| 9020381 | 10 | 22 | 9153488 | 2 | 12 | | | |
| 9020383 | 10 | 1 | 916-4842 | 21 | 7 | | | |
| 9020397 | 10 | 9 | 94 | 12 | 4 | | | |
| 9020398 | 10 | 4 | | 19 | 4 | | | |
| 9020401 | 10 | 2 | 9977069 | 12 | 19 | | | |
| 9022333 | 12 | 15 | 9977153 | 8 | 4 | | | |
| 9025043 | 3 | 17 | 9977163 | 12 | 22 | | | |
| 9025044 | 3 | 12 | 9977164 | 12 | 24 | | | |
| 9025991 | 30 | 5 | 9977579 | 3 | 22 | | | |
| 9025992 | 30 | 6 | 9977596 | 3 | 26 | | | |
| 9026936-1 | 15 | 9 | 9977597 | 3 | 25 | | | |
| 9029768 | 8 | 10 | 9977598 | 3 | 23 | | | |
| 9029795 | 3 | 11 | 9977602 | 3 | 29 | | | |
| 9029931 | 7 | 16 | 9978397 | 3 | 5 | | | |
| 9029934 | 7 | 17 | 9978398 | 3 | 7 | | | |
| 9030169 | 32 | 18 | 9978399 | 3 | 4 | | | |
| 9031249 | 9 | 18 | 9978400 | 3 | 8 | | | |
| | 32 | 5 | 9978401 | 3 | 2 | | | |
| 9031260 | 9 | 10 | 9979094 | 3 | 1 | | | |
| | 32 | 17 | | | | | | |
| 9031263 | 32 | 13 | | | | | | |
| 9031878 | 3 | 14 | | | | | | |
| 9032134 | 10 | 11 | | | | | | |

| REFERENCE NUMBER | FIG. NO. | ITEM NO. | REFERENCE NUMBER | FIG. NO. | ITEM NO. | REFERENCE NUMBER | FIG. NO. | ITEM NO. |
|---------------------|-------------|-------------|---------------------|-------------|-------------|---------------------|-------------|-------------|
| 8530889 | 32 | 10 | 9032143 | 10 | 6 | | | |
| 8530890 | 32 | 16 | 9032212 | 2 | 11 | | | |
| 8530897 | 32 | 19 | 9032471 | 5 | 14 | | | |
| 8530898 | 32 | 11 | 9032472 | 4 | 15 | | | |
| 8530904 | 32 | 9 | 9032475 | 4 | 16 | | | |
| 9003262 | 13 | 25 | 9034320 | 2 | 1 | | | |
| 9017736 | 14 | 8 | 911-4362 | 19 | 23 | | | |
| 9017737 | 2 | 17 | 911-5002 | 21 | 8 | | | |
| 9018424 | 19 | 12 | 9111745 | 12 | 1 | | | |
| 9018668-1 | 15 | 11 | | 18 | 1 | | | |
| 9018840 | 4 | 10 | 9112718 | 19 | 1 | | | |
| | 5 | 7 | | 15 | 13 | | | |
| | 8 | 33 | 9151244 | 9 | 15 | | | |
| | 10 | 23 | | 32 | 2 | | | |
| 9019000 | 9 | 4 | 9151329 | 8 | 13 | | | |
| 9019275 | 11 | 2 | 9151469 | 8 | 34 | | | |
| 9019300 | 11 | 1 | 9151643 | 10 | 8 | | | |
| 9020154 | 16 | 2 | 9151815 | 10 | 24 | | | |
| | 17 | 2 | | | | | | |
| 9020381 | 10 | 22 | 9152160 | 14 | 7 | | | |
| 9020383 | 10 | 1 | 9153488 | 2 | 12 | | | |
| 9020397 | 10 | 9 | 916-4842 | 21 | 7 | | | |
| 9020398 | 10 | 4 | 94 | 12 | 4 | | | |
| 9020401 | 10 | 2 | | 19 | 4 | | | |
| 9022333 | 12 | 15 | 9977569 | 12 | 19 | | | |
| 9025043 | 3 | 17 | 9977153 | 8 | 4 | | | |
| 9025044 | 3 | 12 | 9977163 | 12 | 22 | | | |
| 9025991 | 30 | 5 | 9977164 | 12 | 24 | | | |
| 9025992 | 30 | 6 | 9977579 | 3 | 22 | | | |
| 9026936-1 | 15 | 9 | 9977596 | 3 | 26 | | | |
| 9029768 | 8 | 10 | 9977597 | 3 | 25 | | | |
| 9029795 | 3 | 11 | 9977598 | 3 | 23 | | | |
| 9029931 | 7 | 16 | 9977602 | 3 | 29 | | | |
| 9029934 | 7 | 17 | 9978397 | 3 | 5 | | | |
| 9030169 | 32 | 18 | 9978398 | 3 | 7 | | | |
| 9031249 | 9 | 18 | 9978399 | 3 | 4 | | | |
| | 32 | 5 | 9978400 | 3 | 8 | | | |
| 9031260 | 9 | 10 | 9978401 | 3 | 2 | | | |
| | 32 | 17 | 9979094 | 3 | 1 | | | |
| 9031263 | 32 | 13 | | | | | | |
| 9031878 | 3 | 14 | | | | | | |
| 9032134 | 10 | 11 | | | | | | |

| REFERENCE NUMBER | FIG. NO. | ITEM NO. | REFERENCE NUMBER | FIG. NO. | ITEM NO. | REFERENCE NUMBER | FIG. NO. | ITEM NO. |
|---------------------|-------------|-------------|---------------------|-------------|-------------|---------------------|-------------|-------------|
| T1004 | 27 | 9 | 16-223 | 19 | 20 | 8022006 | 15 | 22 |
| T1005 | 27 | 10 | 16-42 | 19 | 22 | 8031053 | 13 | 10 |
| T1006-1 | 27 | 5 | 16-939 | 21 | 3 | 8031098 | 12 | 27 |
| T1006-2 | 27 | 4 | 17-1774-2 | 20 | 2 | 8034459 | 31 | 8 |
| 05 | 12 | 3 | 17-1775-2 | 19 | 16 | 8034483 | 31 | 19 |
| | 19 | 3 | 20-722 | 21 | 6 | 816-401 | 19 | 21 |
| 070618 | 18 | 13 | 21-308-3 | 20 | 4 | 8165440 | 10 | 16 |
| | 19 | 26 | 21-507-2 | 19 | 15 | 8167019 | 8 | 27 |
| 10015592-050 | 30 | 3 | 21-507-3 | 19 | 14 | 8167026 | 8 | 26 |
| 10596841-1 | 30 | 11 | 2610655 | 23 | 14 | 8167037 | 4 | 3 |
| | 30 | 21 | 27-294 | 19 | 11 | 8167121 | 31 | 10 |
| 11-419 | 19 | 13 | 30-489 | 19 | 9 | 8167172 | 6 | 6 |
| 11-824 | 19 | 6 | 4316A | 12 | 2 | 8167388 | 13 | 23 |
| | 19 | 17 | 49-1819 | 19 | 2 | 8167393 | 13 | 12 |
| 11067500 | 12 | 29 | 49-2785 | 21 | 1 | 8167412 | 16 | 4 |
| 11067504 | 11 | 25 | 49-2785-2 | 19 | 10 | | 17 | 5 |
| 11067508 | 23 | 15 | 49-3161 | 19 | 7 | 8167413 | 16 | 12 |
| 11067511 | 25 | 6 | 51-858 | 19 | 19 | | 17 | 11 |
| 11067512 | 25 | 9 | 5183444 | 21 | 5 | 8167414 | 12 | 9 |
| 11067515 | 23 | 9 | 5183447 | 24 | 2 | 8167416 | 8 | 1 |
| 11067517 | 2 | 19 | 5183448 | 25 | 2 | 8167417 | 28 | 5 |
| 11067518 | 11 | 18 | 540631 | 12 | 11 | 8167418 | 8 | 20 |
| 11067520 | 13 | 2 | 540683 | 12 | 9 | 8167420 | 28 | 6 |
| 11067544 | 15 | 19 | 55-534 | 24 | 7 | | 29 | 5 |
| 11067546 | 8 | 32 | 5578538 | 25 | 7 | 8167422 | 8 | 8 |
| 11067553 | 9 | 13 | 56-1225 | 20 | 1 | 8167434 | 29 | 6 |
| | 32 | 23 | 586088 | 12 | 10 | 8167435 | 8 | 6 |
| 11067554 | 9 | 17 | 589919 | 20 | 6 | 8167436 | 29 | 7 |
| | 32 | 1 | 5952134 | 30 | 7 | 8167445 | 8 | 23 |
| 11067555 | 32 | 12 | 69-919 | 31 | 15 | 8167452 | 8 | 5 |
| 11067556 | 32 | 20 | 69-920 | 29 | 8 | 8167465 | 32 | 14 |
| 11067561 | 13 | 9 | 7632546 | 30 | 9 | 8167494 | 16 | 13 |
| 11067563 | 28 | 3 | 7632547 | 20 | 5 | | 17 | 12 |
| | 29 | 3 | 7632548 | 20 | 3 | 8167495 | 6 | 9 |
| 11067572 | 16 | 5 | 7632550 | 24 | 4 | 8167497 | 5 | 6 |
| 11067574 | 25 | 8 | 8020622 | 24 | 3 | 8167501 | 4 | 11 |
| 12-198 | 19 | 8 | 8022002 | 24 | 1 | 8167506 | 2 | 3 |
| 13060166 | 18 | 7 | | 24 | 5 | 8167527 | 16 | 6 |
| | 19 | 5 | | | | 8167585 | 12 | 12 |
| 13060167 | 17 | 15 | | | | 8167617 | 2 | 28 |
| | 18 | 6 | | | | 8167618 | 2 | 5 |
| 13060168 | 18 | 2 | | | | | | |
| 13060170 | 17 | 8 | | | | | | |
| 16-1710 | 21 | 4 | | | | | | |

By Order of the Secretary of the Army:

Official:

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Major General, United States Army
The Adjutant General

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General, United States Army
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